6
7
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40
50
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9
10
11

TELETYPE MACHINE WIRING DIAGRAMS

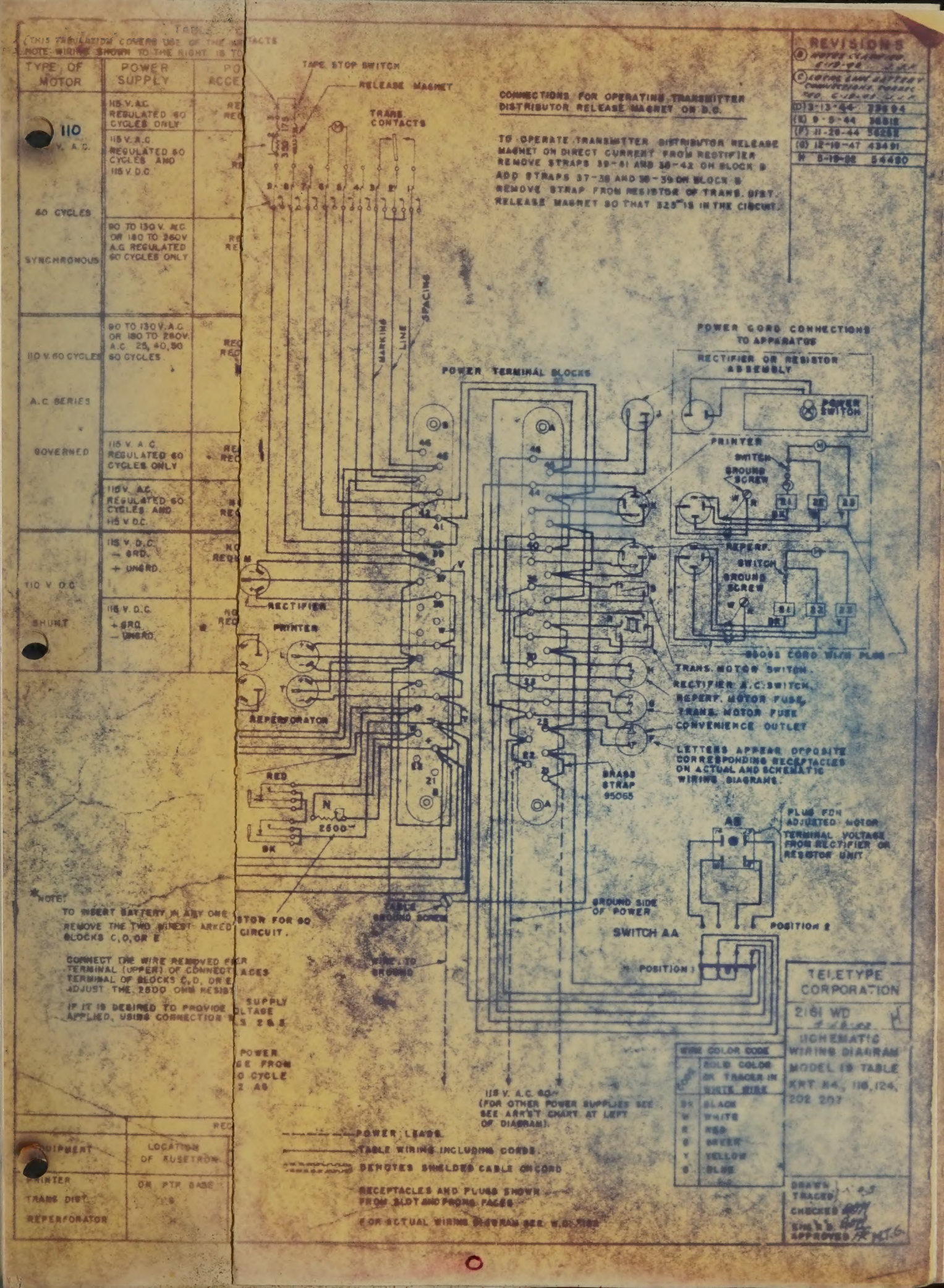


TABLE
(THIS TABULATION COVERS USE OF THE CONTACTS
NOTE: WIRING SHOWN TO THE RIGHT IS TO
TYPE OF MOTOR
POWER SUPPLY
110 V. A.C. 60 CYCLES SYNCHRONOUS
115 V. A.C. REGULATED 60 CYCLES ONLY
115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.
90 TO 130 V. A.C. OR 180 TO 260 V. A.C. REGULATED 60 CYCLES ONLY
110 V. 60 CYCLES A.C. SERIES GOVERNED
90 TO 130 V. A.C. OR 180 TO 260 V. A.C. 25, 40, 50 60 CYCLES.
115 V. A.C. REGULATED 60 CYCLES ONLY
115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.
110 V. D.C. SHUNT
115 V. D.C. — GRD. + UNGRD.
115 V. D.C. + GRD. — UNGRD.
TAPE STOP SWITCH
RELEASE MAGNET
TRANS. CONTACTS
CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.
TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 38-42 ON BLOCK B ADD STRAPS 37-38 AND 39-39 ON BLOCK B REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 525Ω IS IN THE CIRCUIT.
REVISIONS
(B) NOTES CLARIFIED 6-10-42 J.A.K.
(C) MOTOR LEAD BATTERY CONNECTIONS, PARTS ADD C-18-43 J.A.K.
(D) 3-13-44 39894
(E) 9-5-44 36818
(F) 11-20-44 50258
(G) 12-10-47 43491
H 5-19-52 54480
SPACING
MARKING
LINE
POWER TERMINAL BLOCKS
POWER CORD CONNECTIONS TO APPARATUS
RECTIFIER OR RESISTOR ASSEMBLY
POWER SWITCH
PRINTER
SWITCH
GROUND SCREW
REPERF.
TRANS. MOTOR SWITCH
RECTIFIER A.C. SWITCH
REPERF. MOTOR FUSE
TRANS. MOTOR FUSE
CONVENIENCE OUTLET
LETTERS APPEAR OPPOSITE CORRESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS.
RECTIFIER
PRINTER
REPERFORATOR
RED
BK
2500Ω
BRASS STRAP 95065
AB
PLUG FOR ADJUSTED MOTOR TERMINAL VOLTAGE FROM RECTIFIER OR RESISTOR UNIT
GROUND SIDE OF POWER
SWITCH AA
POSITION 2
POSITION 1
TELETYPE CORPORATION
2161 WD
SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE KRT 84, 118, 124, 202 207
WIRE COLOR CODE
SOLID COLOR OR TRACER IN WHITE WIRE
BK BLACK
W WHITE
R RED
N BROWN
Y YELLOW
U BLUE
115 V. A.C. 60~ (FOR OTHER POWER SUPPLIES SEE SEE ARR'GT CHART AT LEFT OF DIAGRAM).
POWER LEADS
TABLE WIRING INCLUDING CORDS
DENOTES SHIELDED CABLE OR CORD
RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES
FOR ACTUAL WIRING DIAGRAM SEE W.D. 2161
DRAWN
TRACED
CHECKED
ENG'R'G APPROVED
NOTE: TO INSERT BATTERY IN ANY ONE REMOVE THE TWO WIRES MARKED BLOCKS C, D, OR E
CONNECT THE WIRE REMOVED FROM TERMINAL (UPPER) OF CONNECTING BLOCKS TERMINAL OF BLOCKS C, D, OR E
ADJUST THE 2500 OHM RESISTOR FOR 60 CIRCUIT.
IF IT IS DESIRED TO PROVIDE SUPPLY VOLTAGE APPLIED, USING CONNECTION
POWER FROM 60 CYCLE AB
EQUIPMENT
LOCATION OF RUSETRON
PRINTER
TRANS DIST
REPERFORATOR
ON PTR BASE

TABLE CONNECTION INSTRUCTIONS

(THIS TABULATION COVERS USE OF THE 19B TABLE WITH POWER SUPPLIES OF VARIOUS VOLTAGES & FREQUENCIES)
NOTE: WIRING SHOWN TO THE RIGHT IS TO BE USED AS A STARTING POINT IN MAKING CONNECTIONS TABULATED BELOW

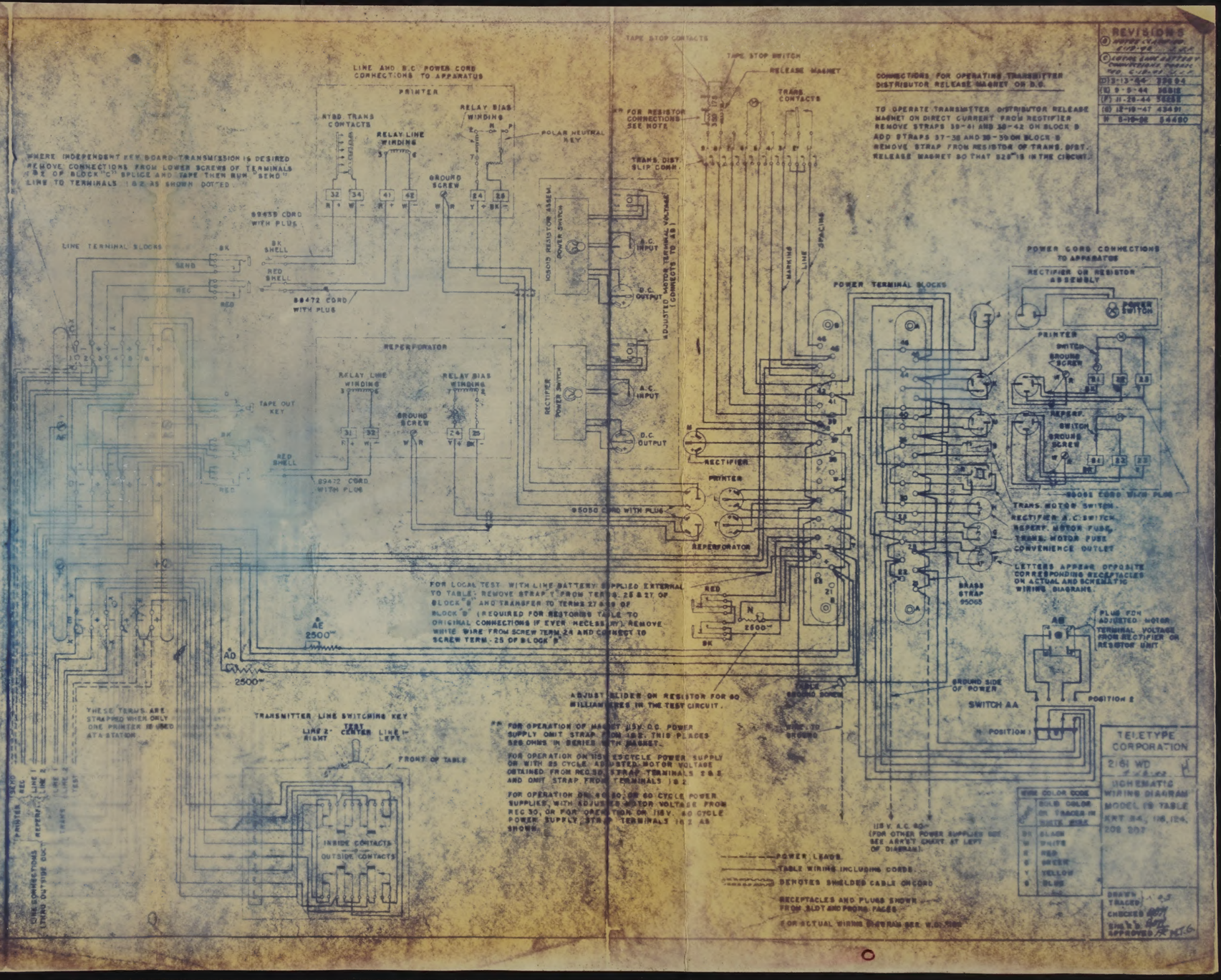
TYPE OF MOTOR	POWER SUPPLY	POWER ACCESSORY	INSTRUCTIONS	ARR'T NO
110 V. A.C. 60 CYCLES SYNCHRONOUS	115 V. A.C. REGULATED 60 CYCLES ONLY	REC—13 RECTIFIER	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN.	1
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN. MOVE UPPER END OF STRAP V ON BLOCK B FROM TERMINAL 37 TO 22, AND MOVE UPPER END OF STRAP W FROM TERMINAL 35 TO 21. CONNECT 115 V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK B, PLUS TO BE CONNECTED TO TERMINAL 21, MINUS TO BE CONNECTED TO TERMINAL 22.	2
	90 TO 130 V. A.C. OR 180 TO 260 V. A.C. REGULATED 60 CYCLES ONLY	REC—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT VOLTAGE TERMINAL WIRE TO TAP NEAREST VOLTAGE OF POWER SOURCE, AND CONNECT FREQUENCY TERMINAL WIRE TO THE 60 CYCLE TAP. SPECIFICATION S-5387, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	3
110 V. 60 CYCLES A.C. SERIES GOVERNED	90 TO 130 V. A.C. OR 180 TO 260 V. A.C. 25, 40, 50 60 CYCLES	REC—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT THE VOLTAGE TERMINAL WIRE TO THE TAP NEAREST THE VOLTAGE OF THE POWER SOURCE, AND CONNECT THE FREQUENCY TERMINAL WIRE TO THE TAP NEAREST TO THE FREQUENCY OF THE SOURCE. SPECIFICATION S-5387, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	4
	115 V. A.C. REGULATED 60 CYCLES ONLY	REC—13 RECTIFIER	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 1	5
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 2	6
110 V. D.C. SHUNT	115 V. D.C. — SRC. + UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115 V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, + TO 21 AND — TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 22 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 21 ON BLOCK A	7
	115 V. D.C. + SRC. — UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115 V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, — TO 21 AND + TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 21 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 38 ON BLOCK B TO 22 ON BLOCK A.	8

NOTE:
TO INSERT BATTERY IN ANY ONE OF THE LINES ENTERING THE TABLE PROCEED AS FOLLOWS:
REMOVE THE TWO WIRES* MARKED X1 OF ANY DESIRED LINE FROM THEIR RESPECTIVE TERMINALS ON BLOCKS C, D, OR E

CONNECT THE WIRE REMOVED FROM THE UPPER TERMINAL OF BLOCKS C, D, OR E, TO THE NEGATIVE TERMINAL (UPPER) OF CONNECTION STRIP AF. CONNECT THE WIRE REMOVED FROM THE LOWER TERMINAL OF BLOCKS C, D, OR E, TO THE POSITIVE TERMINAL (LOWER) OF CONNECTION STRIP AF. ADJUST THE 2500 OHM RESISTOR AD TO PROVIDE A LINE CURRENT OF 60 MILLIAMPERES.

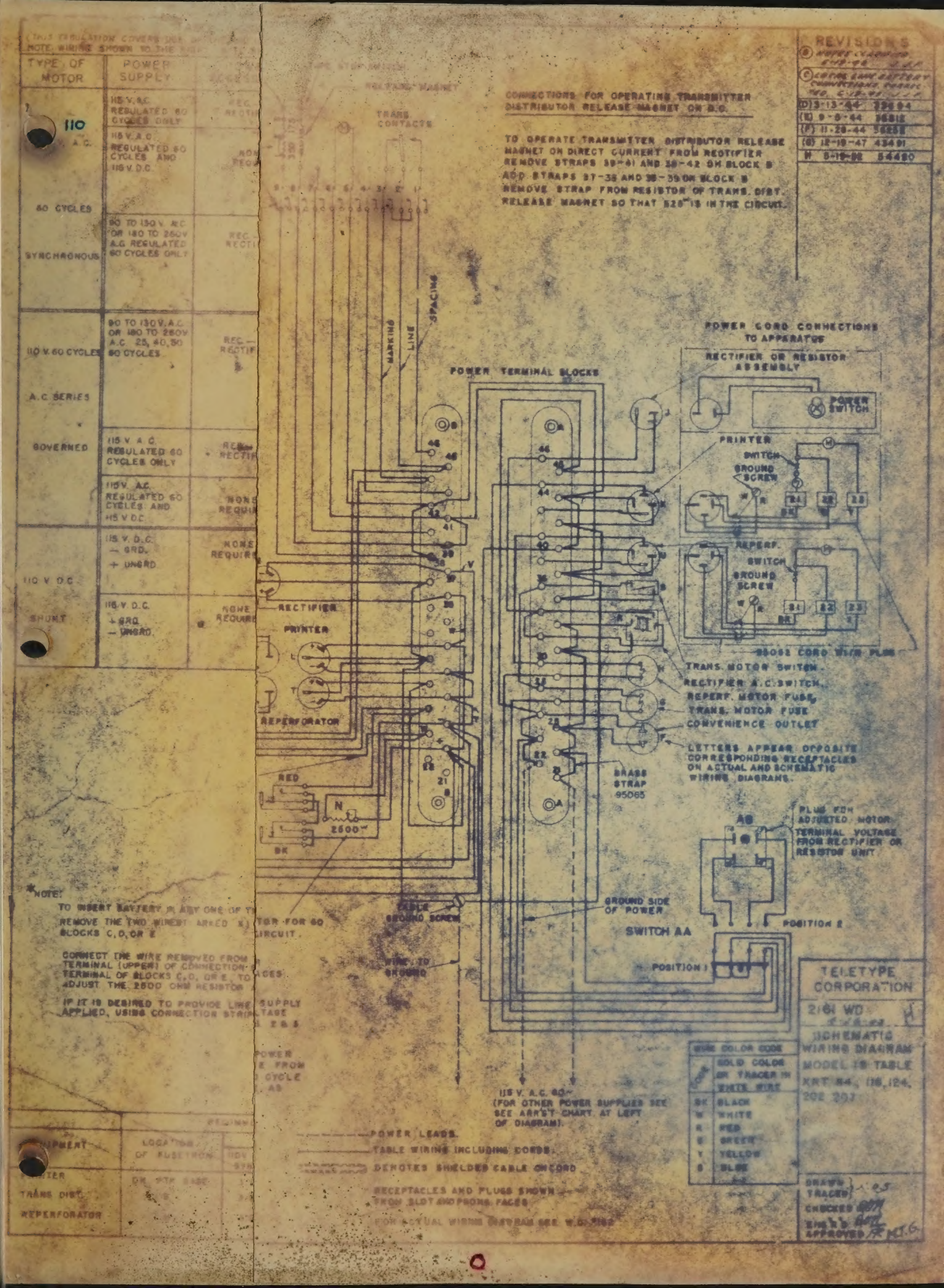
IF IT IS DESIRED TO PROVIDE LINE BATTERY IN A SECOND LINE, THE SAME PROCEDURE MAY BE APPLIED, USING CONNECTOR STRIP AG, AND RESISTOR AE.

EQUIPMENT	LOCATION OF FUSETRON	RECOMMENDED FUSETRON PROTECTION — MOTOR DRIVE		
		110 V. A.C. 50-60 SYNCHRONOUS	110 V. A.C. 60 CYCLES SERIES GOVERNED	110 V. D.C. GOVERNED
PRINTER	ON PTR BASE	3.2 AMPERES	1.60 AMPERES	3 AMPERES
TRANS. DIST.	" "	2.5 AMPERES	1.25 AMPERES	6 AMPERES
REPERFORATOR	" "	2.8 AMPERES	1.40 AMPERES	6 AMPERES


LINE AND D.C. POWER CORD CONNECTIONS TO APPARATUS
PRINTER
REPERFORATOR
TAPE STOP CONTACTS
TAPE STOP SWITCH
RELEASE MAGNET
TRANS CONTACTS
RELAY BIAS WINDING
RELAY LINE WINDING
POLAR NEUTRAL KEY
TRANS. DIST. SLIP COMM.
GROUND SCREW
LINE TERMINAL BLOCKS
SEND
REC
RED
BK
BK SHELL
RED SHELL
89439 CORD WITH PLUG
89472 CORD WITH PLUG
TAPE OUT KEY
A.C. INPUT
D.C. OUTPUT
RECTIFIER POWER SWITCH
ADJUSTED MOTOR TERMINAL VOLTAGE (CONNECTS TO AB)
POWER TERMINAL BLOCKS
POWER CORD CONNECTIONS TO APPARATUS
RECTIFIER OR RESISTOR ASSEMBLY
POWER SWITCH
PRINTER SWITCH
REPERF. SWITCH
95085 CORD WITH PLUG
TRANS. MOTOR SWITCH
RECTIFIER A.C. SWITCH
REPERF. MOTOR FUSE
TRANS. MOTOR FUSE
CONVENIENCE OUTLET
LETTERS APPEAR OPPOSITE CORRESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS.
95050 CORD WITH PLUG
BRASS STRAP 95065
AE 2500Ω
AD 2500Ω
AB
PLUG FOR ADJUSTED MOTOR TERMINAL VOLTAGE FROM RECTIFIER OR RESISTOR UNIT
SWITCH AA
POSITION 1
POSITION 2
GROUND SIDE OF POWER
CABLE GROUND SCREW
TRANSMITTER LINE SWITCHING KEY
LINE 2 RIGHT
TEST CENTER
LINE 1 LEFT
FRONT OF TABLE
INSIDE CONTACTS
OUTSIDE CONTACTS
THESE TERMS ARE STRAPPED WHEN ONLY ONE PRINTER IS USED AT A STATION
ADJUST SLIDES ON RESISTOR FOR 60 MILLIAMPERES IN THE TEST CIRCUIT.
FOR LOCAL TEST WITH LINE BATTERY SUPPLIED EXTERNAL TO TABLE, REMOVE STRAP T FROM TERMS. 25 & 27 OF BLOCK B AND TRANSFER TO TERMS 27 & 28 OF BLOCK B (REQUIRED FOR RESTORING TABLE TO ORIGINAL CONNECTIONS IF EVER NECESSARY). REMOVE WHITE WIRE FROM SCREW TERM. 24 AND CONNECT TO SCREW TERM. 25 OF BLOCK B
WHERE INDEPENDENT KEY BOARD TRANSMISSION IS DESIRED REMOVE CONNECTIONS FROM LOWER SCREWS OF TERMINALS 31 & 32 OF BLOCK "C" SPLICE AND TAPE THEM RUN "SEND" LINE TO TERMINALS 1 & 2 AS SHOWN DOTTED.
FOR RESISTOR CONNECTIONS SEE NOTE
CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.
TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 30-42 ON BLOCK B
ADD STRAPS 37-38 AND 29-30 ON BLOCK B
REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 328Ω IS IN THE CIRCUIT.
FOR OPERATION OF MAGNET 115 V. D.C. POWER SUPPLY OMIT STRAP FROM 18 E. THIS PLACES 328 OHMS IN SERIES WITH MAGNET.
FOR OPERATION ON 115 V. 60 CYCLE POWER SUPPLY OR WITH 25 CYCLE ADJUSTED MOTOR VOLTAGE OBTAINED FROM REC 30, STRAP TERMINALS 2 & 5 AND OMIT STRAP FROM TERMINALS 1 & 2.
FOR OPERATION ON 40 TO 50 OR 60 CYCLE POWER SUPPLIES, WITH ADJUSTED MOTOR VOLTAGE FROM REC 30, OR FOR OPERATION ON 115 V. 60 CYCLE POWER SUPPLY, STRAP TERMINALS 1 & 2 AS SHOWN.
115 V. A.C. 60~ (FOR OTHER POWER SUPPLIES SEE ARR'T CHART AT LEFT OF DIAGRAM)
POWER LEADS
TABLE WIRING INCLUDING CORDS
DENOTES SHIELDED CABLE ON CORD
RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES
FOR ACTUAL WIRING DIAGRAM SEE W.D. 1180
WIRE COLOR CODE
SOLID COLOR OR TRACER IN SOLID WIRE
BK BLACK
W WHITE
R RED
G GREEN
Y YELLOW
B BLUE

REVISIONS		
(A)	NOTES CHANGED & ADDED	6-10-42
(B)	CONNECTIONS ADDED FOR TRANSMITTER DISTRIBUTOR RELEASE MAGNET	10-6-43
(C)		11-13-44
(D)		8-9-44
(E)		11-20-44
(F)		12-19-47
(G)		5-19-48

TELETYPE CORPORATION
2161 WD
SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE SENT 84, 118, 124, 208 207
DRAWN
TRACED
CHECKED
ENG'R'D
APPROVED


REVISIONS
(D) 3-13-44 29694
(E) 9-8-44 35818
(F) 11-28-44 36258
(G) 12-19-47 43491
H 5-19-52 54480
CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.
TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 38-42 ON BLOCK B ADD STRAPS 37-38 AND 38-39 ON BLOCK B REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 525Ω IS IN THE CIRCUIT.
POWER CORD CONNECTIONS TO APPARATUS
RECTIFIER OR RESISTOR ASSEMBLY
POWER SWITCH
PRINTER
SWITCH
GROUND SCREW
REPERF.
SWITCH
GROUND SCREW
95093 CORD WITH PLUG
TRANS. MOTOR SWITCH
RECTIFIER A.C. SWITCH
REPERF. MOTOR FUSE
TRANS. MOTOR FUSE
CONVENIENCE OUTLET
LETTERS APPEAR OPPOSITE CORRESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS.
POWER TERMINAL BLOCKS
MARKING
LINE
SPACING
TRANS CONTACTS
RECTIFIER
PRINTER
REPERFORATOR
RED
BK
2500Ω
BRASS STRAP 95065
AB
PLUG FOR ADJUSTED MOTOR TERMINAL VOLTAGE FROM RECTIFIER OR RESISTOR UNIT
GROUND SIDE OF POWER
SWITCH AA
POSITION 2
POSITION 1
CABLE GROUND SCREW
WIRE TO GROUND
115 V. A.C. 60~ (FOR OTHER POWER SUPPLIES SEE SEE ARR'T CHART AT LEFT OF DIAGRAM).
POWER LEADS.
TABLE WIRING INCLUDING CORDS.
DENOTES SHIELDED CABLE OR CORD
RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES
FOR ACTUAL WIRING DIAGRAM SEE W.D. 9182
WIRE COLOR CODE
SOLID COLOR OR TRACER IN WHITE WIRE
BK BLACK
W WHITE
R RED
G GREEN
Y YELLOW
B BLUE
TELETYPE CORPORATION
2161 WD
SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE XRT 84, 118, 124, 202 207
DRAWN
TRACED
CHECKED
ENG'R'G APPROVED
TYPE OF MOTOR
POWER SUPPLY
110 A.C. 60 CYCLES SYNCHRONOUS
115 V. A.C. REGULATED 60 CYCLES ONLY
115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.
90 TO 130 V. A.C. OR 180 TO 260 V. A.C. REGULATED 60 CYCLES ONLY
110 V. 60 CYCLES A.C. SERIES GOVERNED
90 TO 130 V. A.C. OR 180 TO 260 V. A.C. 25, 40, 50 60 CYCLES
115 V. A.C. REGULATED 60 CYCLES ONLY
115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.
110 V. D.C. SHUNT
115 V. D.C. — GRD. + UNGRD
115 V. D.C. + GRD. — UNGRD.
NOTE:
TO INSERT BATTERY IN ANY ONE OF THE
REMOVE THE TWO WIRES ARKED X
BLOCKS C, D, OR E
CONNECT THE WIRE REMOVED FROM TERMINAL (UPPER) OF CONNECTION TERMINAL OF BLOCKS C, D, OR E, TO ADJUST THE 2500 OHM RESISTOR
IF IT IS DESIRED TO PROVIDE LINE SUPPLY APPLIED, USING CONNECTION STRIP
EQUIPMENT
LOCATION OF RESISTOR
TRANS DIST
REPERFORATOR

THIS TABULATION COVERS USE OF TELETYPE MOTORS AS SHOWN ON WIRING DIAGRAMS. NOTE WIRING SHOWN TO THE RIGHT OF THE TABULATION IS FOR USE AS A FACTORY TOOL IN MAKING CONNECTIONS TABULATED BELOW.

TYPE OF MOTOR	POWER SUPPLY	RECTIFIER	INSTRUCTIONS	ARR'T NO.
110 V. A.C. 60 CYCLES SYNCHRONOUS	115 V. A.C. REGULATED 60 CYCLES ONLY	REC — 115 RECTIFIER	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN.	1
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN. MOVE UPPER END OF STRAP V ON BLOCK B FROM TERMINAL 37 TO 22, AND MOVE UPPER END OF STRAP W FROM TERMINAL 35 TO 21. CONNECT 115 V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK B, PLUS — TO BE CONNECTED TO TERMINAL 21, MINUS — TO BE CONNECTED TO TERMINAL 22.	2
	90 TO 130 V. A.C. OR 180 TO 260 V. A.C. REGULATED 60 CYCLES ONLY	REC — 30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT VOLTAGE TERMINAL WIRE TO TAP NEAREST VOLTAGE OF POWER SOURCE, AND CONNECT FREQUENCY TERMINAL WIRE TO THE 60 CYCLE TAP. SPECIFICATION S-5387, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	3
110 V. 60 CYCLE A.C. SERIES GOVERNED	90 TO 130 V. A.C. OR 180 TO 260 V. A.C. 25, 40, 50 60 CYCLES	REC — 30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT THE VOLTAGE TERMINAL WIRE TO THE TAP NEAREST THE VOLTAGE OF THE POWER SOURCE, AND CONNECT THE FREQUENCY TERMINAL WIRE TO THE TAP NEAREST TO THE FREQUENCY OF THE SOURCE. SPECIFICATION S-5387, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	4
	115 V. A.C. REGULATED 60 CYCLES ONLY	REC — 115 RECTIFIER	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 1	5
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 2	6
110 V. D.C. SHUNT	115 V. D.C. — GRD. + UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, — TO 21 AND + TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 22 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 21 ON BLOCK A.	7
	115 V. D.C. + GRD — UNGRD	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115 V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, — TO 21 AND + TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 21 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 22 ON BLOCK A.	8

* NOTE:

TO INSERT BATTERY IN ANY ONE OF THE LINES ENTERING THE TABLE PROCEED AS FOLLOWS.

REMOVE THE TWO WIRES MARKED X1 OF ANY DESIRED LINE FROM THEIR RESPECTIVE TERMINALS ON BLOCKS C, D, OR E

CONNECT THE WIRE REMOVED FROM THE UPPER TERMINAL OF BLOCKS C, D, OR E TO THE NEGATIVE TERMINAL (UPPER) OF CONNECTION STRIP AF. CONNECT THE WIRE REMOVED FROM THE LOWER TERMINAL OF BLOCKS C, D, OR E TO THE POSITIVE TERMINAL (LOWER) OF CONNECTION STRIP AF. ADJUST THE 2500 OHM RESISTOR AG TO PROVIDE A LINE CURRENT OF 60 MILLIAMPERES.

IF IT IS DESIRED TO PROVIDE LINE BATTERY IN A SECOND LINE, THE SAME PROCEDURE MAY BE APPLIED, USING CONNECTION STRIP AG, AND RESISTOR AE.

EQUIPMENT	LOCATION OF FUSETRON	RECOMMENDED FUSETRON PROTECTION		
		MOTOR DRIVE		
		110 V. A.C. 50-60 CYCLES SYNCHRONOUS	110 V. A.C. 60 CYCLES SERIES GOVERNED	110 V. D.C. GOVERNED
PRINTER	OR STR BASE	2 AMPERES	1.60 AMPERES	.8 AMPERES
TRANS. DIST.	" "	1 AMPERES	1.25 AMPERES	.8 AMPERES
REPERFORATOR	" "	1 AMPERES	1.60 AMPERES	.8 AMPERES

LINE AND D.C. POWER CORD CONNECTIONS TO APPARATUS

PRINTER

RELAY BIAS WINDING

AYBD TRANS CONTACTS

RELAY LINE WINDING

POLAR NEUTRAL KEY

WHERE INDEPENDENT KEY BOARD TRANSMISSION IS DESIRED REMOVE CONNECTIONS FROM LOWER SCREWS OF TERMINALS 1 & 2 OF BLOCK "C" SPLICE AND TAPE THEM RUN "SEND" LINE TO TERMINALS 1 & 2 AS SHOWN DOTTED

GROUND SCREW

85438 CORD WITH PLUG

BK SHELL

RED SHELL

88472 CORD WITH PLUG

LINE TERMINAL BLOCKS

REPERFORATOR

RELAY LINE WINDING

RELAY BIAS WINDING

TAPE OUT KEY

GROUND SCREW

RED SHELL

88472 CORD WITH PLUG

FOR LOCAL TEST WITH LINE BATTERY SUPPLIED EXTERNAL TO TABLE: REMOVE STRAP Y FROM TERMS. 26 & 27 OF BLOCK "B" AND TRANSFER TO TERMS 27 & 28 OF BLOCK "B" (REQUIRED FOR RESTORING TABLE TO ORIGINAL CONNECTIONS IF EVER NECESSARY). REMOVE WHITE WIRE FROM SCREW TERM 24 AND CONNECT TO SCREW TERM 25 OF BLOCK "B"

AE 2500Ω

AD 2500Ω

THESE TERMS. ARE STRAPPED WHEN ONLY ONE PRINTER IS USED AT A STATION

TRANSMITTER LINE SWITCHING KEY

LINE 2 RIGHT — TEST CENTER — LINE 1 LEFT

FRONT OF TABLE

INSIDE CONTACTS

OUTSIDE CONTACTS

ADJUST SLIDER ON RESISTOR FOR 60 MILLIAMPERES IN THE TEST CIRCUIT.

FOR OPERATION OF MAGNET 115 V. D.C. POWER SUPPLY OMIT STRAP ON 1RE. THIS PLACES 526 OHMS IN SERIES WITH MAGNET.

FOR OPERATION ON 115 V. 60 CYCLE POWER SUPPLY OR WITH 90 CYCLE ADJUSTED MOTOR VOLTAGE OBTAINED FROM REC 30, STRAP TERMINALS 1 & 3 AND OMIT STRAP FROM TERMINALS 1 & 2

FOR OPERATION ON 60, 50, OR 60 CYCLE POWER SUPPLIES, WITH ADJUSTED MOTOR VOLTAGE FROM REC 30, OR FOR OPERATION ON 115 V. 60 CYCLE POWER SUPPLY, STRAP TERMINALS 1 & 3 AS SHOWN.

CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.

TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 38-42 ON BLOCK B ADD STRAPS 37-38 AND 35-39 ON BLOCK B REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 526Ω IS IN THE CIRCUIT.

REVISIONS

(D) 3-13-44 3284

(E) 9-8-44 3681S

(F) 11-28-44 3685S

(G) 12-10-47 43481

H 8-19-48 54480

TRANS. CONTACTS

FOR RESISTOR CONNECTIONS SEE NOTE

TRANS. DIST. SLIP CONN.

ROTARY PRESS FOR ASSEM. POWER SWITCH

A.C. INPUT

D.C. OUTPUT

ADJUSTED MOTOR TERMINAL VOLTAGE (CONNECTS TO 45)

RECTIFIER POWER SWITCH

A.C. INPUT

D.C. OUTPUT

RECTIFIER

PRINTER

REPERFORATOR

95050 CORD WITH PLUG

POWER TERMINAL BLOCKS

MARKING LINE SPACING

POWER CORD CONNECTIONS TO APPARATUS

RECTIFIER OR RESISTOR ASSEMBLY

POWER SWITCH

PRINTER SWITCH GROUND SCREW

REPERF. SWITCH GROUND SCREW

95088 CORD WITH PLUG

TRANS. MOTOR SWITCH

RECTIFIER A.C. SWITCH

REPERF. MOTOR FUSE

TRANS. MOTOR FUSE

CONVENIENCE OUTLET

LETTERS APPEAR OPPOSITE CORRESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS.

BRASS STRAP 95065

PLUG FOR ADJUSTED MOTOR TERMINAL VOLTAGE FROM RECTIFIER OR RESISTOR UNIT

GROUND SIDE OF POWER

SWITCH AA

POSITION 2

POSITION 1

WIRE TO GROUND

115 V. A.C. 60 (FOR OTHER POWER SUPPLIES SEE ABOVE CHART AT LEFT OF DIAGRAM)

WIRE COLOR CODE	
	SOLID COLOR OR TRACER IN WHITE WIRE
BK	BLACK
W	WHITE
R	RED
G	GREEN
Y	YELLOW
B	BLUE

POWER LEADS

TABLE WIRING INCLUDING CORDS

DENOTES SHIELDED CABLE OR CORD

RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES

FOR ACTUAL WIRING DIAGRAM SEE W.D. 3182

TELETYPE CORPORATION

2161 WD H

SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE ART. NOS. 178, 184, 202, 203

DRAWN TRACED CHECKED

APPROVED

NOTES:

1. Wiring as shown for Bases without control relay. When control relay is used, wires shown connected to A and B on switch are removed spliced together and taped. The wire loops of switch and control relay coil are cut and connected to the respective units. The wire loop at the control relay contacts is cut, "G" is connected to "E" for "Break Oper." and to "C" for "Make Oper." "F" is connected to "D" in either case.
2. For "Break Oper" turn the power switch upside down to make "On" and "Off" designations on cover agree with oper. of switch.
3. To operate printer without line relay move yellow wire from term 62 to 61 and move white wire from terminal 65 to 66.

#92814 Cable

These wires are supplied only in typing units equipped with mechanical motor control for single line oper.

When mechanical motor control is used, remove this strap

On Bases Not Equipped With Send-Rec.-Break Mech.
1. Splice & tape these 3 wires
2. Tape this wire separately
3. Splice and tape these 2 wires

When the Shunt around the Xmit contacts is not required, disconnect this wire, tape end & tie to cable

Splice

(Line Relay Unit Cable #74575)

100Ω 2000Ω
600Ω 2000Ω
300Ω 2000Ω

Line Relay

IMP.

Both ends of these wires taped against cable

On Typing Unit

Line Magnet (Line Magnet Cable #74625)

1/4 MF.

Motor Control Contacts (Unit Cable #74789)

This resistor to be 70Ω for 110V Motor & 400Ω for 220V DC Motor

Break Contacts

Transmitting Rec. Contacts

Splice

110 V OR 220V D.C. Shunt Motor (Motor Unit Cable #74571)

Target Lamp

Switch

Armature Loop

Field Resis.

#3 Resis Terminals with wire RM39622

14 15 16

A.C. SERIES MOTOR (Motor Unit Cable #74788)

Target Lamp

Switch

13 14 15 16

SYNCHRONOUS MOTOR

STARTING WINDING

RUNNING WINDING

CENTRIFUGAL SWITCH

13 14 15 16

Fuse 67 68

Resistance Mountings

69 70

1-200-400Ω Resistance
1-300-500Ω "

Line Jack

13 14 15 16

Trans Contacts

Splice

Ends Taped Connect to Noise Killer Condenser when used

Switch

Receptacle

Power

ASSOCIATED CABLES

#74574	Base
#74573	"
#74575	Line Relay Unit
#74571	D.C. Motor
#74788	A.C. "
#74578	Keyboard "
#74625	Line Magnet
#74789	Motor Control Unit
#92814	Base

COLOR CODE

W - White
R - Red
G - Green
Br - Brown
Y - Yellow
O - Orange
P - Purple
All other wires black

NOTE:
All wires Dia. #18 AWG Silk Covered. Mixture except motor leads.
Thin lines indicate wires not in cable.

TELETYPE CORPORATION

WD 1701-

Wiring Diagram Model 15 PTR

HPG 1W3-2-1

SWITCH
GROUNDED
TO COND
MTG SCR

NOTES:

1. Wiring as shown for Bases without control relay. When control relay is used wires shown connected to A and B on Sw. "D" are removed spliced together and taped. The make end of switch and control relay should be connected to the resistor at which the wire loop at the control relay is cut. "G" is connected to "C" for "Break Oper" and to "C" for "Make Oper" is connected to "D" in either case.

2. For "Break Oper" turn the power switch upside down to make On and Off designations on cover agree with oper. of switch.

3. To operate printer without line relay move yellow wire from term 63 to 61 and move white wire from terminal 65 to 66.

These wires are supplied only on typing units equipped with mechanical motor control for single line oper.

When mechanical motor control is used, remove this strap

On Bases Not Equipped With Send-Rec-Break Mech.
1. Splice & tape these 3 wires
2. Tape this wire separately
3. Splice and tape these 2 wires

When the shunt around the Kyb Trans contacts is not required, disconnect the wire, tape end & tie to cable

ASSOCIATED CABLES	
# 74574	Base
# 74573	"
# 74575	Line Relay Unit
# 74571	DC Motor "
# 74788	AC " "
# 74572	Keyboard "
# 74625	Line Magnet "
# 74789	Motor Control Unit
# 92814	Base

COLOR CODE	
W	White
R	Red
G	Green
Br	Brown
Y	Yellow
O	Orange
P	Purple
All other wires	black

(Line Relay Unit Cable #74575)

600Ω 2000Ω

600Ω 2000Ω

810Ω 2000Ω

Line Relay

IMP

Both ends of these wires against cable

On Typing Unit

Line Magnet (Line Magnet Cable #74

#92814 Cable

110 V OR 220 V D.C. Shunt Motor (Motor Unit Cable #74571)

Target Lamp Switch

Armature Loop

Field Resis

Strap 3 Resis Terminals with wire RM39622

(Motor Unit Cable #74788)

Target Lamp Switch

13 14 15 16

SYNCHRONOUS MOTOR

STARTING WINDING

RUNNING WINDING

CENTRIFUGAL SWITCH

13 14 15 16

Fuse 67 68

Resistance Mountings

69 70

1-200-400Ω Resistance

1-300-500Ω "

Line Jack

Tape

Splice

Ends Taped Connect to Noise Killer Condenser when used

Receptacle

Power

Transmitting Rec Contacts

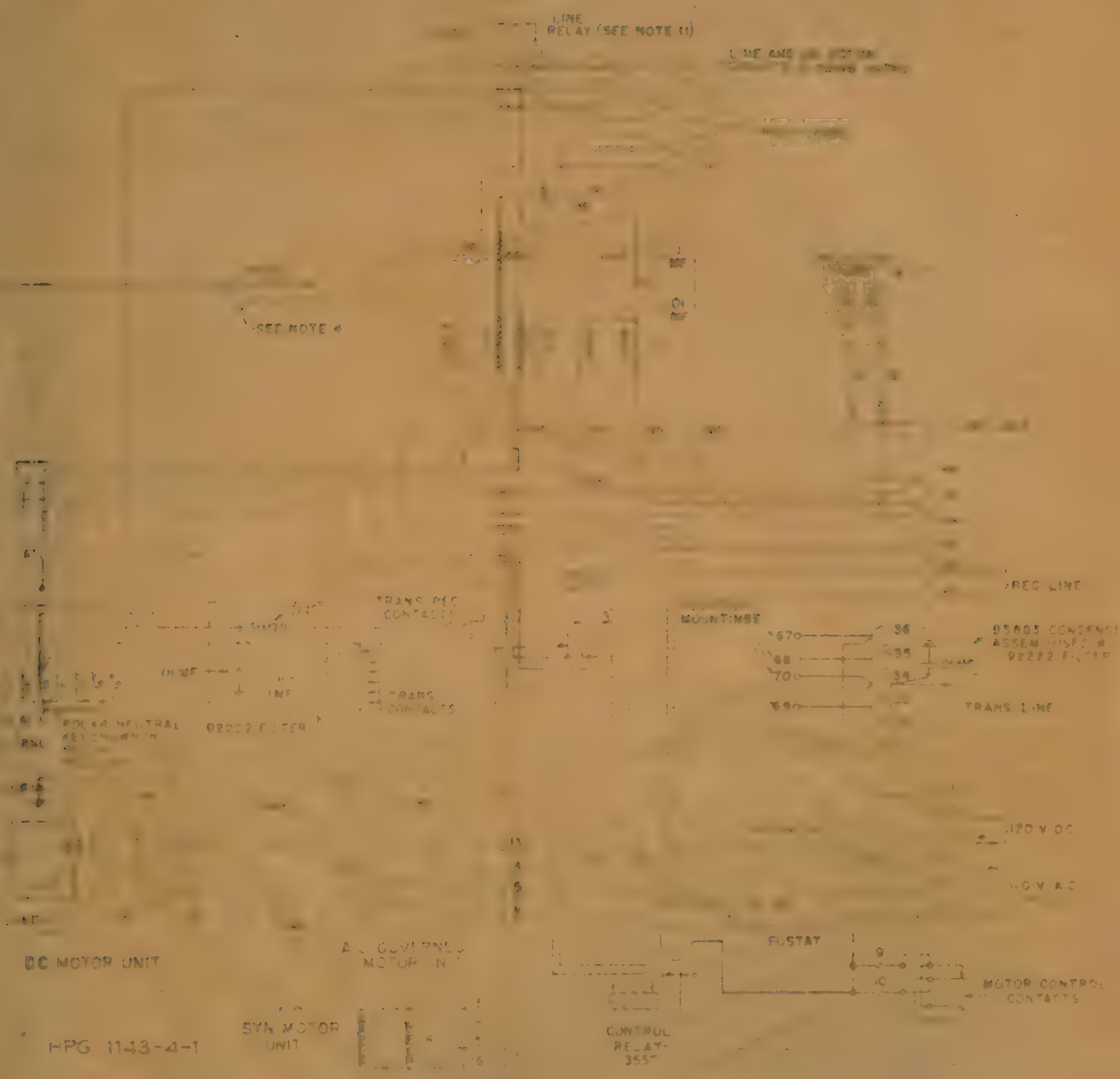
Keyboard Cable

Trans Contacts

NOTE
All wires Deoxaron #18 Art Silk Covered Mixture, EXCEPT motor leads.
Thin lines indicate wires not in cable.

TELETYPE CORPORATION	
WD 1701-	
Wiring Diagram Model 15 PTR	

HPG 43-2-1



HPG 1143-4-1

SCHEMATIC WIRING - IE PRINTER SET WITH KEYBOARD

DOTTED LINES INDICATE
CIRCUIT FOR LOCAL TEST

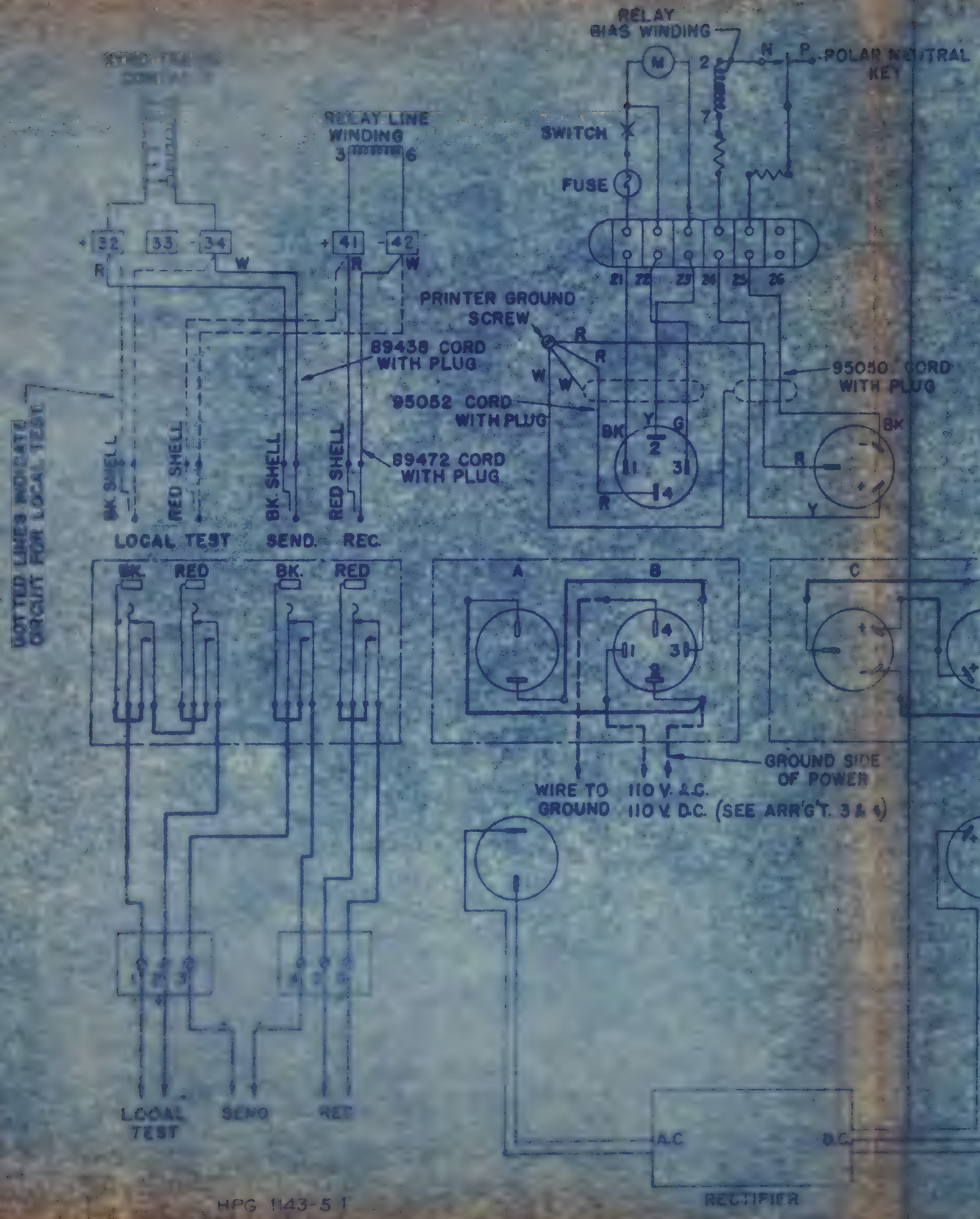


TABLE CONNECTIONS FOR VARIOUS POWER SUPPLIES

ARR'GT.	POWER SUPPLY FOR MOTOR	D.C. FOR LOCAL CIRCUITS TO LINE RELAY AND SELECTOR MAGNETS	POWER CONNECTIONS
1	110 V. A.C.	RECTIFIER ON TABLE	AS SHOWN
2	110 V. A.C.	110 V D.C POWER SUPPLY EXTERNAL TO TABLE (EITHER + OR - GROUNDED)	CONNECT A.C. TO RECEPTACLE "B" AS SHOWN. REMOVE WIRES FROM + & - TERMS. ON RECEPTACLE "C" AND TAPE ENDS. CONNECT + & - 110 V. D.C. TO CORRESPONDING TERMS. OF RECEPTACLE "C."
3	110 V. D.C. POWER SUPPLY EXTERNAL TO TABLE (+ GROUNDED.)		95050 CORD NOT USED. STRAP PTR. TERMS. 22 & 25. STRAP PTR. TERMS. 23 & 24.
4	110 V. D.C. POWER SUPPLY EXTERNAL TO TABLE (- GROUNDED.)		95050 CORD NOT USED. STRAP PTR. TERMS. 22 & 24. STRAP PTR. TERMS. 23 & 25.

TELETYPE CORPORATION

WD. 1797-A

NOV. 18, 1938

WIRING DIAGRAM FOR XRT 97

DRAWN H.C.A.
TRACED H.C.A.
CHECKED W.N.C.
ENG'R'G. W.N.C.
APPROVED L.W.I.

POWER LEADS

CABLE WIRING - RM 31551 - 18 DELTA-BESTON COTTON COVERED WIRE - B. & S.

DENOTES SHIELDED CABLE.

HPG 1143-51

TABLE CONNECTIONS

	POWER SUPPLY FOR MOTOR	DC CIRC RELA BETO
	110 V A.C. 25 CYCLES	RECT STR
2	110 V A.C. 50-60 CYCLES	RECT CONT FOR "N" O CON
3	110 V A.C. 50-60 CYCLES	110 V SUP TO + OR
4	110 V A.C. 50-60 CYCLES	RECT BY
5	110 V.A.C. 25 CYCLES	RECT CON UPP OR CON
6	110 V.A.C. 25 CYCLES	110 SUP TO + OR
7	110 V.D.C. POWER SUPP TO TABLE (+ 60	
8	110 V DC POWER SUP TO TABLE (- 60	

STOP

POLAR NEUTRAL RET

LAT BIAS WINDING

95050 CORD WITH PLUG

COLOR CODE	
BK	BLACK
Y	YELLOW
R	RED
G	GREEN
W	WHITE

NOTES

1. REMOVE AND O
THE UPPER TER
#2 OF RECEPTA
THIS JUMPER
RESISTOR
CONNECT
JUMPER TERMIN

1421

REVISIONS

(A) NUMBERING RE-MOVED FROM JACK NOTE 7-21-41 L.A.F.

(B) NOTES REGARDING 25 CYCLE APPLICATION ADDED 6-22-42 E.A.M.

TELETYPE CORPORATION

WD-2031 FEB 14 1941

WD 2031-B

WIRING DIAGRAM TABLE FOR 15 PRINTER 28T-106

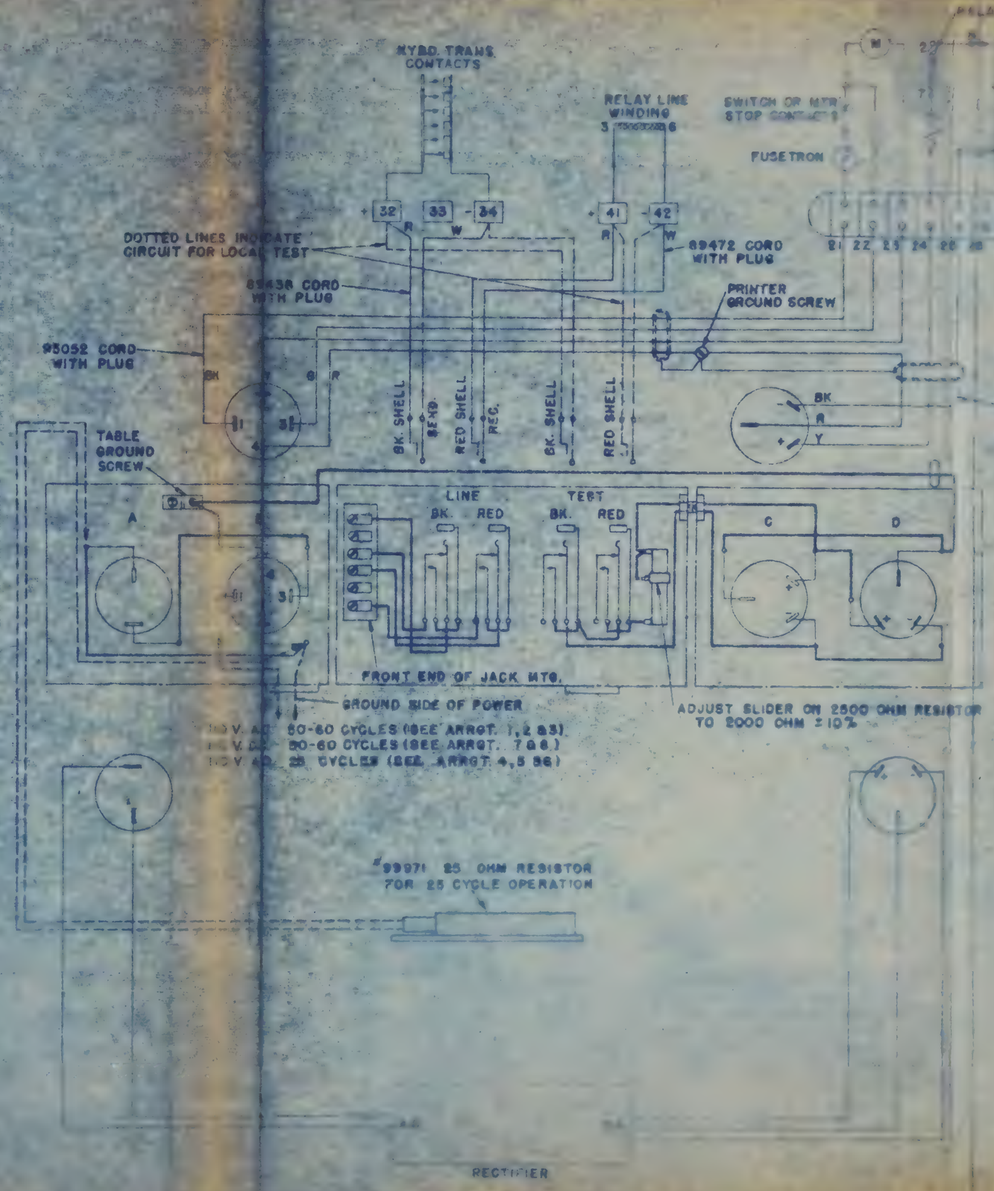
DRAWN HCA
TRACED
CHECKED CPN
ENGRS CPN
APPROVED LMB

TABLE CONNECTIONS FOR VARIOUS POWER SUPPLIES

	POWER SUPPLY FOR MOTOR	D.C. FUNCTIONAL CIRCUITS TO LINE RELAY AND SELECTOR MAGNETS	POWER CONNECTIONS
A	[illegible]	RECT CONTROL BY P.B. MTR SWITCH	AS SHOWN
B	110 V. A.C. 60-60 CYCLES	RECTIFIER "ON" CONTINUOUSLY FOR UPPER CASE "L" OR "M" MOTOR CONTROL	REMOVE WIRE FROM TERM. 3 ON RECEPTACLE "B" AND CONNECT TO TERM. 1.
C	[illegible]	110 V. D.C. POWER SUPPLY EXTERNAL TO TABLE (EITHER + OR - GROUNDED)	CONNECT A.C. TO RECEPTACLE "B" AS SHOWN. REMOVE WIRES FROM + AND - TERMINALS ON RECEPTACLE "C" AND TAPE ENDS. CONNECT + AND - 110 V. D.C. TO CORRESPONDING TERMS. OF RECEPTACLE "C".
A	[illegible]	RECTIFIER CONTROL BY P.B. MTR. SWITCH	SAME AS ARRGT. 1 ABOVE EXCEPT ADD 99971 RESISTOR AS SPECIFIED IN NOTE "A" BELOW
B	[illegible]	RECTIFIER "ON" CONTINUOUSLY FOR UPPER CASE "H" OR "M" MOTOR CONTROL	SAME AS ARRGT. 2 ABOVE EXCEPT ADD 99971 RESISTOR AS SPECIFIED IN NOTE "A" BELOW
C	110 V. A.C. 25 CYCLES	110 V. D.C. POWER SUPPLY EXTERNAL TO TABLE (EITHER + OR - GROUNDED)	SAME AS ARRGT. 3 ABOVE EXCEPT ADD 99971 RESISTOR AS SPECIFIED IN NOTE "A" BELOW
7	110 V.D.C. POWER SUPPLY EXTERNAL TO TABLE (+ GROUNDED)		95050 CORD NOT USED. STRAP PTR. TERMS. 22 & 25. STRAP PTR. TERMS. 23 & 24.
8	110 V.D.C. POWER SUPPLY EXTERNAL TO TABLE (- GROUNDED)		95050 CORD NOT USED. STRAP PTR. TERMS. 22 & 24. STRAP PTR. TERMS. 23 & 26.

NOTES

A. REMOVE AND DISCARD THE STRAP CONNECTED BETWEEN THE UPPER TERMINAL OF RECEPTACLE "A" AND TERMINAL "2 OF RECEPTACLE "B". REMOVE GROUND LEAD FROM THE LATTER TERMINAL. CONNECT A LEAD FROM 99971 RESISTOR TO TERMINAL 2 OF RECEPTACLE "B", AND [illegible] UPPER TERMINAL OF RECEPTACLE "A".



COLOR CODE

BK	BLACK
Y	YELLOW
R	RED
G	GREEN
W	WHITE

POWER LEADS
TABLE WIRING ON SHEET - 10 RELAY ADJUSTOR
C.C. WIRE - BLACK
DENOTES SHIELDED CABLE
RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES.

REVISIONS
1. CHANGED WIRING AS SHOWN FROM JACK MTG. 7-21-61 J.J.C.
2. NOTES REGARDING RECTIFIER MODIFICATIONS ADDED 8-22-61 G.A.M.

TELETYPE CORPORATION
WD-2031
FEB 14 1961
WD 2031-B

WIRING DIAGRAM TABLE FOR 15 PRINTER XRT-106

DRAWN [illegible]
TRACED [illegible]
CHECKED [illegible]
ISSUED [illegible]
APPROVED [illegible]

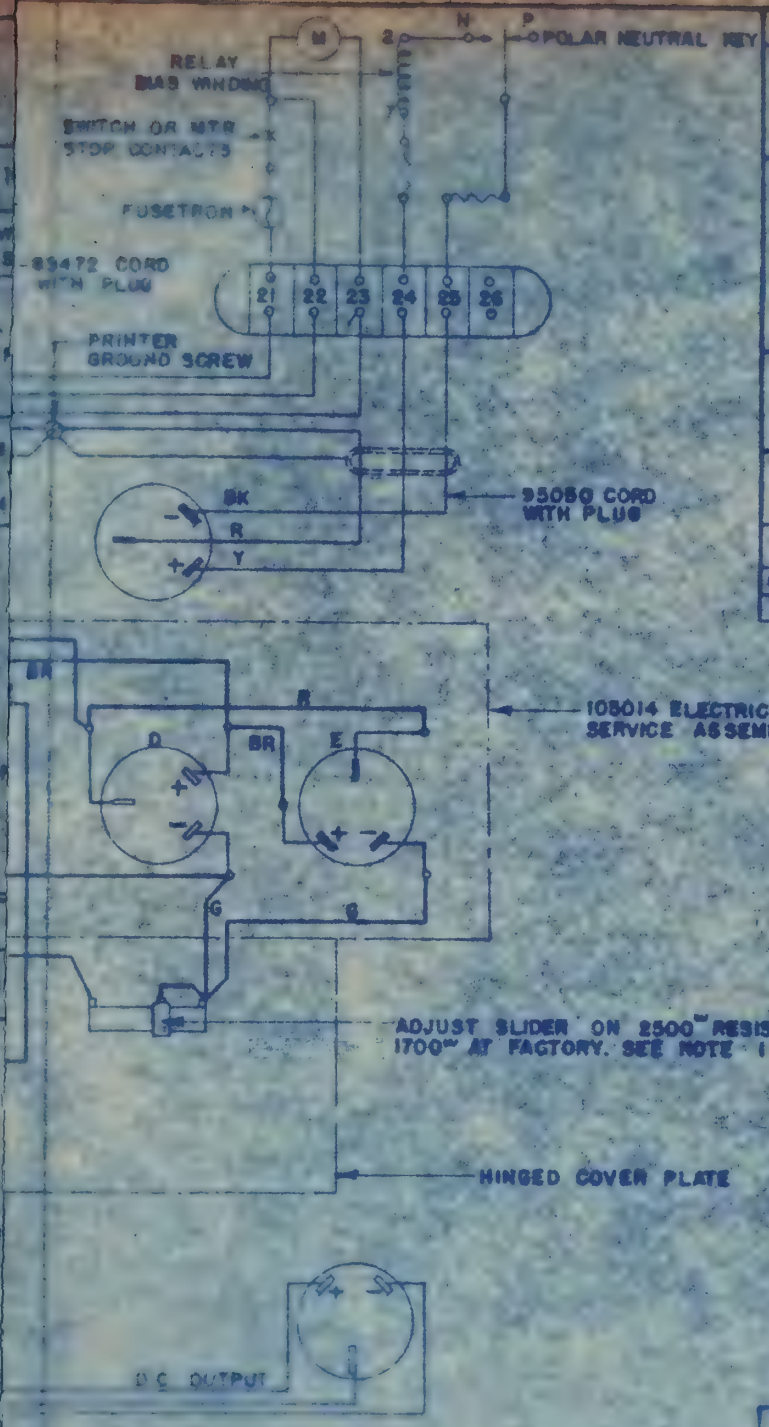


TABLE CO

SERIES

GOVERNED

115 V.A.C.

60 CYCLES

SYNCHRONOUS

REC-

RECTI

NOTE 1

FOR SINGLE LINE

BATTERY STATION

CONNECT LINE TO

NONBATTERY STA

CONNECT LINE TO

CODE BASIC COLOR OR

BK BLACK
Y YELLOW
R RED
G GREEN

REVISIONS

B- CHANGE LINE TERMINAL BLOCK TO 6 TERMINAL BLOCK ADD 2500 OHM RESISTOR H.W.P. 8-6-42	
C- CHANGED 2500Ω SLIDE WIRE RESISTOR IN SERVICE ASSEM TO 2000Ω FIXED RESISTOR. CHANGED POWER & LINE TERMINAL BLOCKS TO AGREE WITH BLOCKS ADD NOTE #1 F.J.H. 10-2-42	
D- TERMINAL 13,14,15 & 16 SHOW ON THE 4 SLOT RECEPTACLE F.J.H. 1-23-43	
E- STRAP ON RECEPTACLE MOVED J.J.F. 3-21-43	
F- 3-23-44	35787
G- 7-17-44	35084
H 7-19-44	35123

WD-2146-G
7-17-42

WIRING DIAGRAM

MODEL
15 PRINTER
TABLE

APPROVED

TELETYPE
CORPORATION

TABLE CONNECTIONS FOR A.C AND D.C. POWER SUPPLIES

MOTOR	POWER ACCESSORY	POWER SUPPLY	CONNECTIONS		ARR'GT. NO.
SERIES GOVERNED SYNCHRONOUS	REC - 29 RECTIFIER	90 TO 130 V.A.C. OR 180 TO 260 V.A.C. 25, 40, 50, 60 CYCLES	TABLE CONNECTIONS AS SHOWN. OPEN RECTIFIER DOOR AND CONNECT THE 3 TERMINAL WIRES TO THE VOLTAGE AND FREQUENCY TAPS NEAREST THE VOLTAGE AND FREQUENCY VALUES OF THE POWER SOURCE.		1
	104823 RESISTOR ASSEMBLY	110/115 V.D.C.	TABLE CONNECTIONS AS SHOWN. CONNECT TERMINAL WIRE ON RESISTOR UNIT TO 40 OHM TAP.		2
	REC - 10 RECTIFIER	110/115 V.A.C. 50/60 CYCLES	RECTIFIER "ON" CONTINUOUSLY FOR UPPER CASE "H" OR "M" MOTOR CONTROL.	FROM TERMINALS "4 AND "5 DISCONNECT WIRES LEADING TO SLOTS "1 AND "2 OF RECEPTACLE "C." CONNECT THESE WIRES TO TERMINALS "1 AND "2 ON TERMINAL BLOCK.	3
			RECTIFIER CONTROLLED BY PRINTER MOTOR SWITCH	CONNECTIONS SAME AS ARRGT. 3 ALSO REMOVE WIRE FROM TERMINAL "1 LEADING TO "1 OF RECEPTACLE "B" AND CONNECT IT TO TERMINAL "6	4
110 V.A.C. 60 CYCLES SYNCHRONOUS	REC - 29 RECTIFIER	90 TO 130 V.A.C. OR 180 TO 260 V.A.C. 60 ~ REGULATED ONLY	TABLE CONNECTIONS AS SHOWN. OPEN RECTIFIER DOOR CONNECT VOLTAGE TERMINAL WIRE TO TAP NEAREST VOLTAGE OF POWER SOURCE, AND FREQUENCY TERMINAL WIRES TO 60 CYCLE TAPS.		5
	REC - 10 RECTIFIER	110/115 V.A.C. REGULATED 60 CYCLES ONLY	RECTIFIER "ON" CONTINUOUSLY FOR UPPER CASE "H" OR "M" MOTOR CONTROL	FROM TERMINALS "4 AND "5 DISCONNECT WIRES LEADING TO SLOTS "1 AND "2 ON RECEPTACLE "C" CONNECT THESE WIRES TO TERMINALS "1 AND "2 ON TERMINAL BLOCK	6
			RECTIFIER CONTROLLED BY PRINTER MOTOR SWITCH.	CONNECTIONS SAME AS ARRGT. 6. ALSO REMOVE WIRE FROM TERMINAL "1 LEADING TO "1 OF RECEPTACLE "B" AND CONNECT IT TO TERMINAL "6	7

NOTE "1

FOR SINGLE LINE OPERATION USING REC - 10 AS LINE BATTERY SOURCE

BATTERY STATION

CONNECT LINE TO TERMINALS "7 AND "10. STRAP TERMINAL "9 TO "1 AND TERMINAL "8 TO "12 WITH PLUGS INSERTED IN LINE JACKS, ADJUST SLIDER ON 2500~ RESISTOR TO PRODUCE .060 AMPERE LINE CURRENT.

NONBATTERY STATION

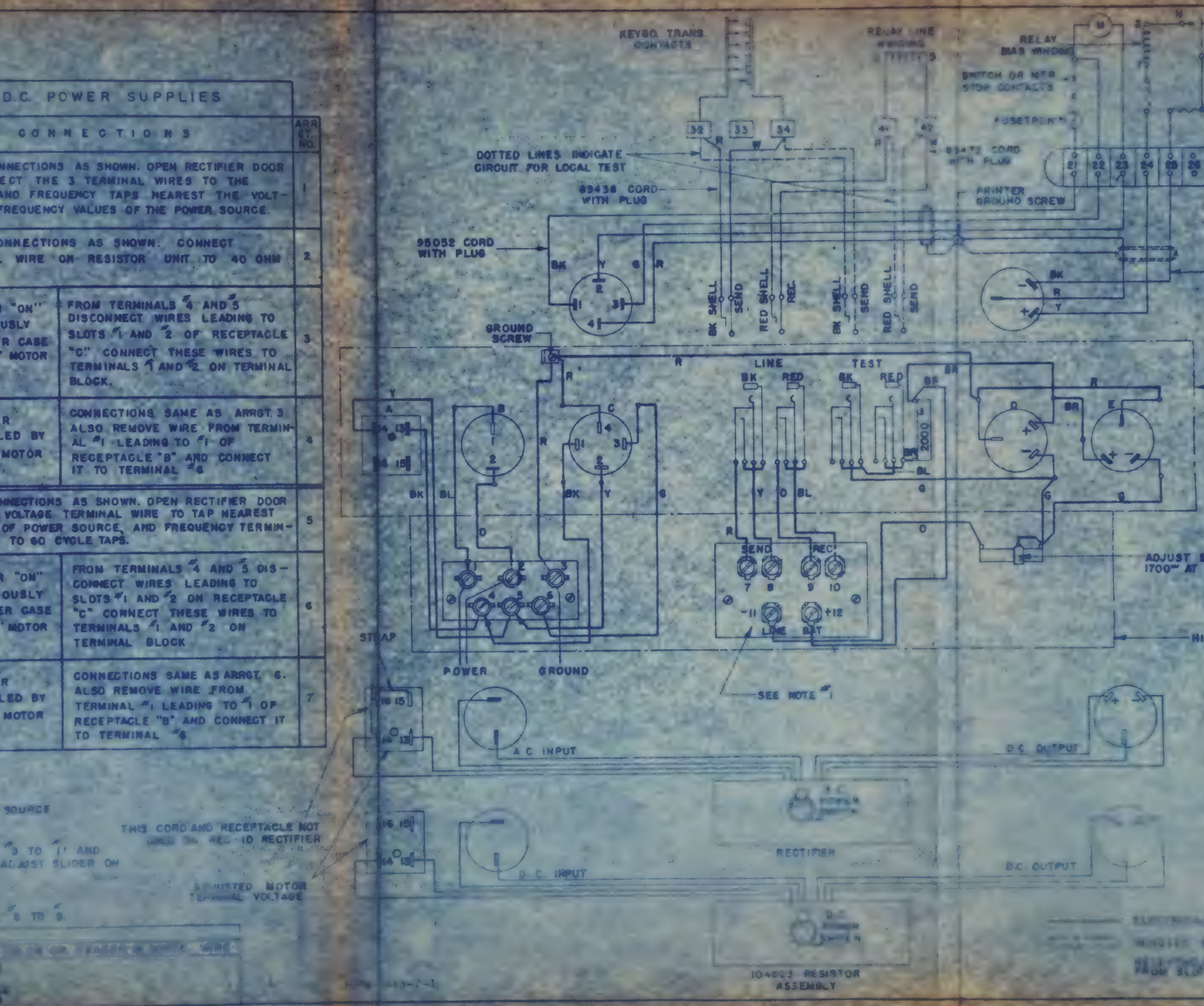
CONNECT LINE TO TERMINALS "7 AND "10. STRAP TERMINAL "8 TO "9.

THIS CORD AND RECEPTACLE NOT USED ON REC - 10 RECTIFIER

ADJUSTED MOTOR TERMINAL VOLTAGE

WIRE COLOR CODE

CODE	BASIC COLOR OR TRACER IN SOLID WIRE	CODE	SECOND COLOR OR TRACER IN STRIPED WIRE
BK	BLACK	W	WHITE
Y	YELLOW	BL	BLUE
R	RED	O	ORANGE
G	GREEN	BR	BROWN



REVISIONS
B- CHANGE LINE TERMINAL BLOCK TO 6 TERMINAL BLOCK ADD 2500 OHM RESISTOR H.W.P. 8-6-42
C- CHANGED 2500~ SLIDE WIRE RESISTOR IN SERVICE ASSEM TO 2000~ FIXED RESISTOR. CHANGED POWER & LINE TERMINAL BLOCKS TO AGREE WITH BLOCKS ADD NOTE "1 F.J.H. 10-2-42
D- TERMINAL 13, 14, 15 & 16 SHOWN ON THE 4 SLOT RECEPTACLE F.J.H. 1-23-43
E- STRAP ON RECEPTACLE MOVED J.J.F. 3-31-43
F - 3-23-44 33787
G - 7-17-44 35084
H 7-19-44 36123

WD-2146-G
7-17-42

WIRING DIAGRAM

MODEL 15 PRINTER TABLE

DRAWN	APPROVED
CHECKED	

TELETYPE CORPORATION

NOTES

1- EQUIPMENT SHOWN DOTTED IS UNDERNEATH UNITS.

2- ALL WIRES ARE NO.18 DELTABESTON COTTON COVERED FIXTURE WIRE, EXCEPT MOTOR LEADS.

3- ASSOCIATED CABLES -
105241 BASE (POWER) 74788 A.C. MOTOR UNIT
105242 BASE (LINE) 105239 KEYBOARD
74625 SELECTOR MAGNET 105826 RESISTOR CAGE
74789 MOTOR CONTROL CONTACTS.

4 - COLOR CODE -
W - WHITE Y - YELLOW BK - BLACK
R - RED O - ORANGE BR - BROWN
G - GREEN P - PURPLE

5 - SET INCLUDES RESISTORS AND SWITCH TO PERMIT OPERATION OF 115 VOLT 50/60 CYCLE A.C. SERIES MOTOR, ON 115 VOLTS 25 AND 40 CYCLE A.C. AND 115 VOLTS D.C., IN ADDITION TO 115 VOLTS 50/60 CYCLE A.C. OPERATION.

6 - TO EQUIP BASE WITH MOUNTING FOR LINE [illegible] AND RELAY RADIO FILTER, AND TO EQUIP KEYBOARD WITH POLAR - NEUTRAL KEY FOR USE WITH LINE RELAY, SEE SPEC. S-5404

REVISIONS

(B) 82474 TERMINAL ADDED 10-31-42 J.J.F.

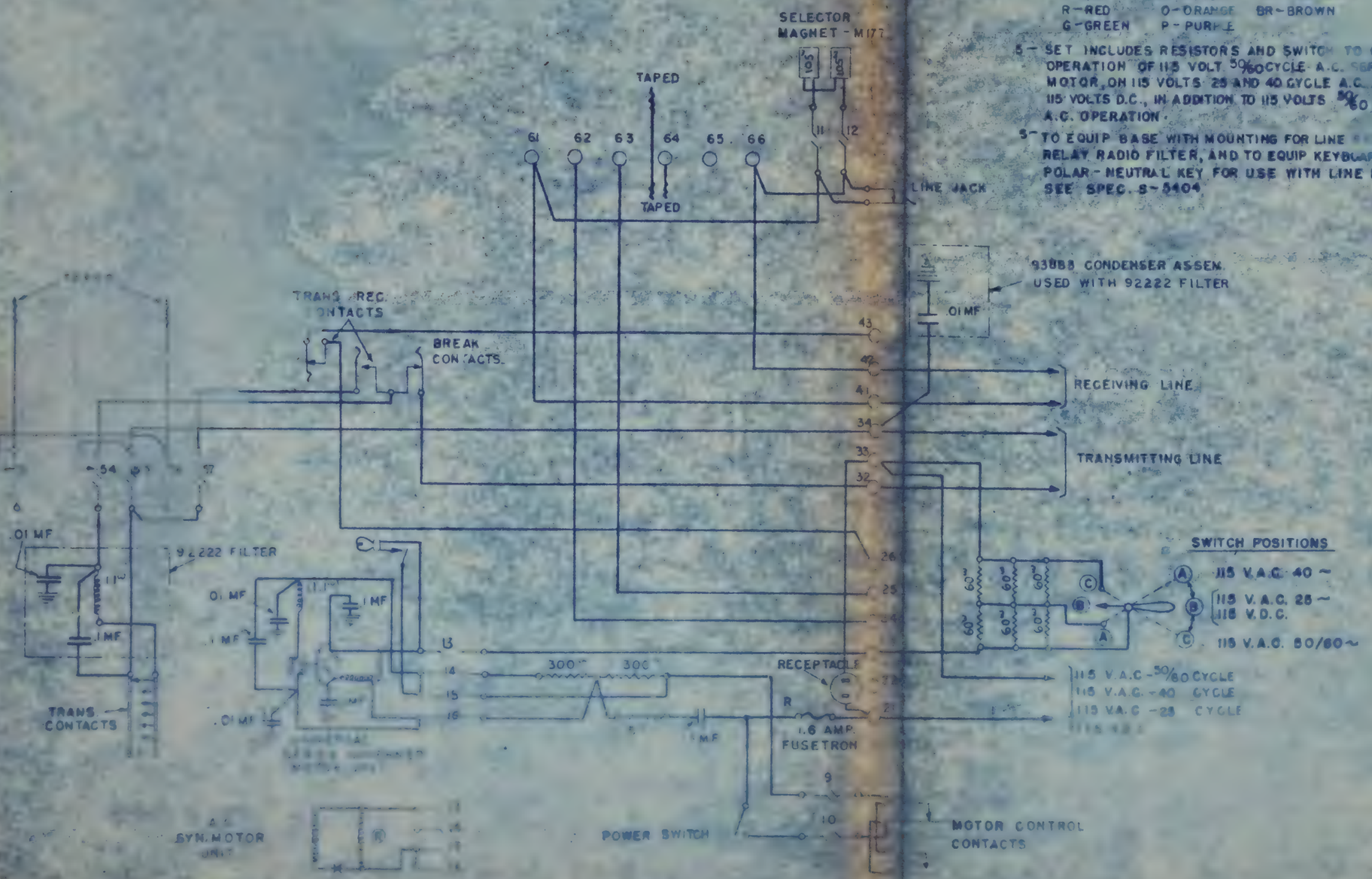
(C) 105517 CORD CHANGED TO 105520 12-19-42 J.J.F.

(D) TITLE CHANGED 1-6-43 J.J.F.

(E) 105526 RESISTOR CAGE CABLE, ADDED 1-20-43 F.J.H.

(F) 1.4 AMP FUSETRON CHANGED TO 1.6 AMP. 5-13-43 J.J.F.

(G) CHOKE COIL LEAD CONNECTED TO OUTER BRUSH SPRING 7-24-43 G.G.



TELETYPE CORPORATION

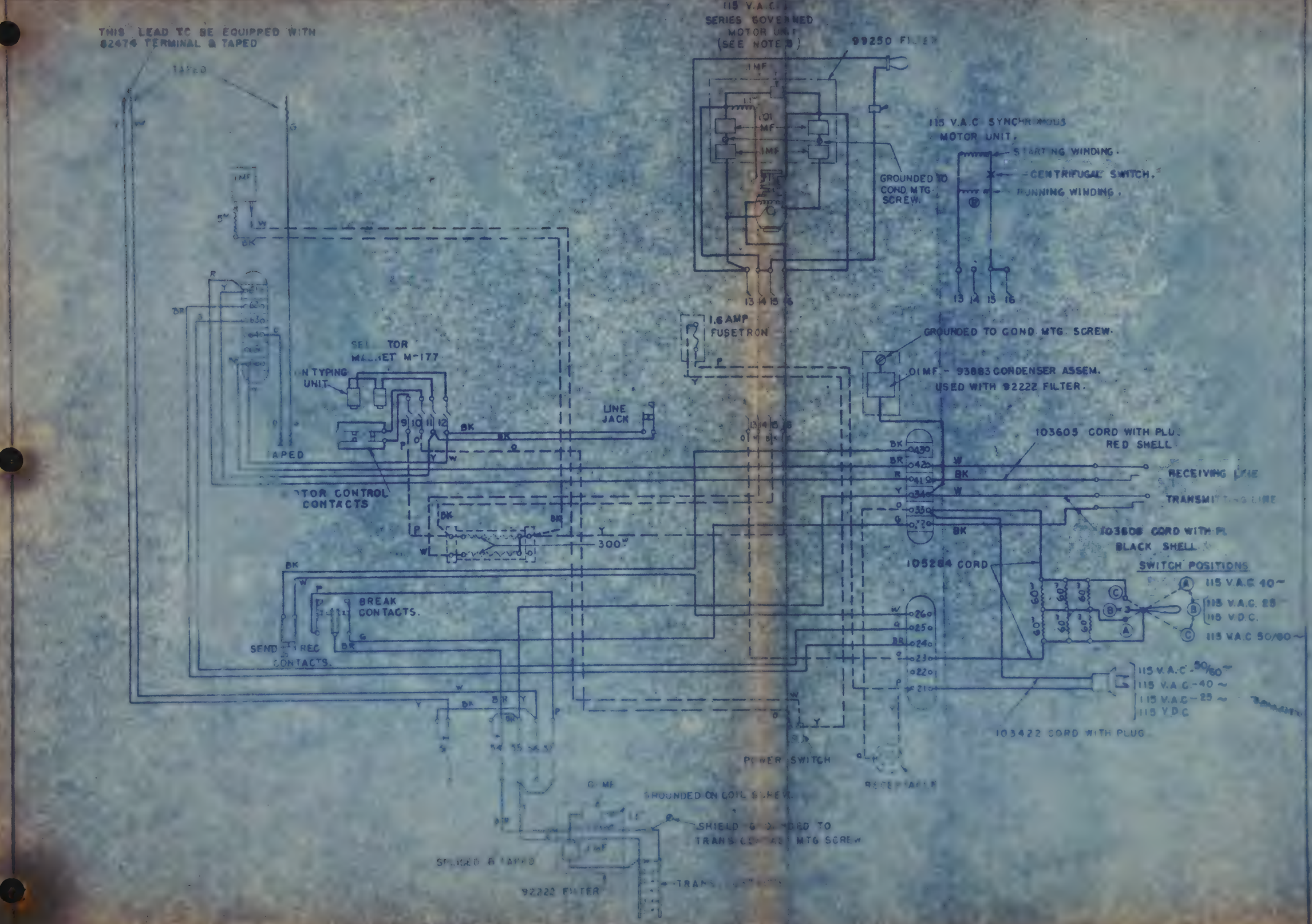
WD 2159 G

WIRING DIAGRAM U.S. ARMY SIGNAL CORPS PRINTER TG 7-B (MODEL 15 PRINTER WITH KEYBOARD, INCLUDING RADIO FILTERS)

SPEC
SB45
BK23

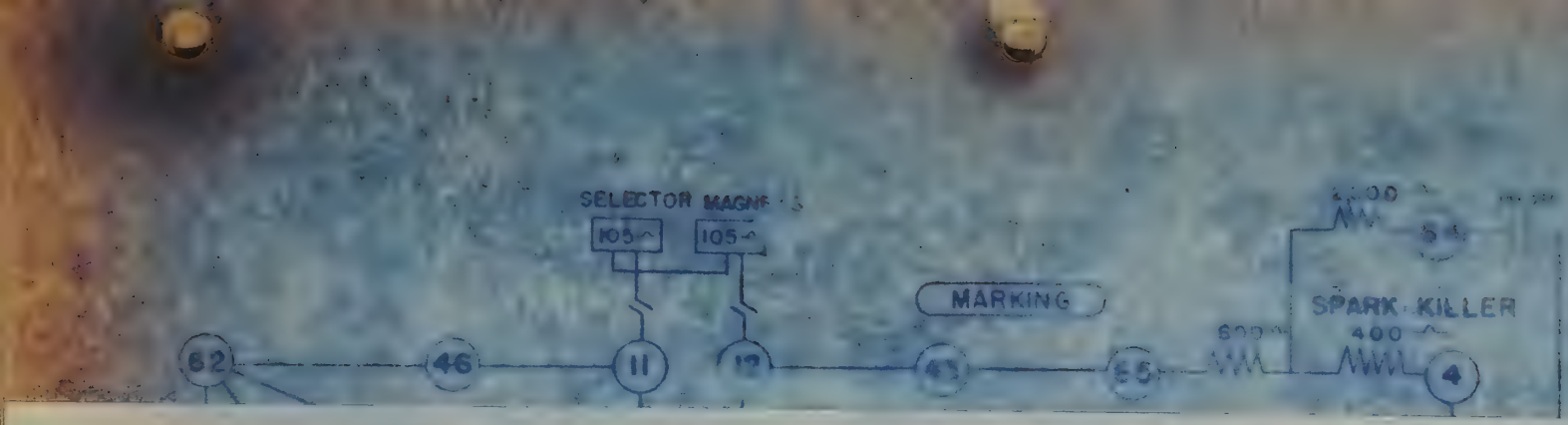
DR'D
ENG'RD
APPROVED

HPG 1143-8-1 SCHEMATIC WIRING - 15 PRINTER SET WITH KEYBOARD.

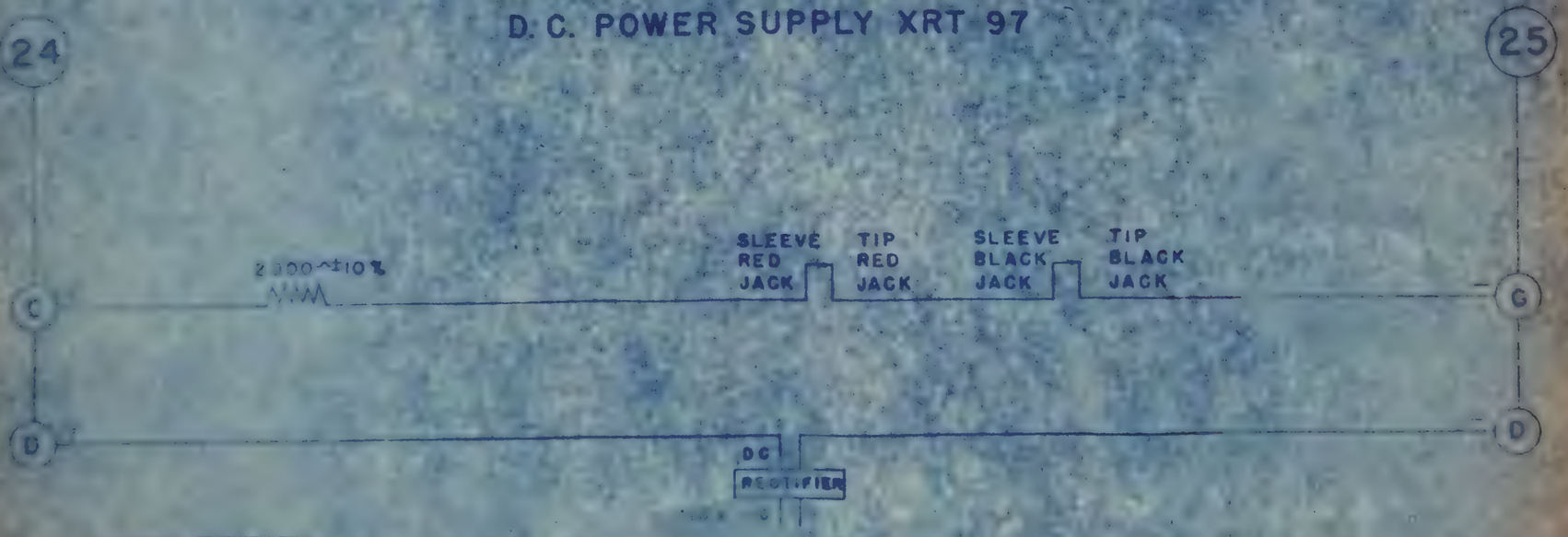


HPG 1143-9-1

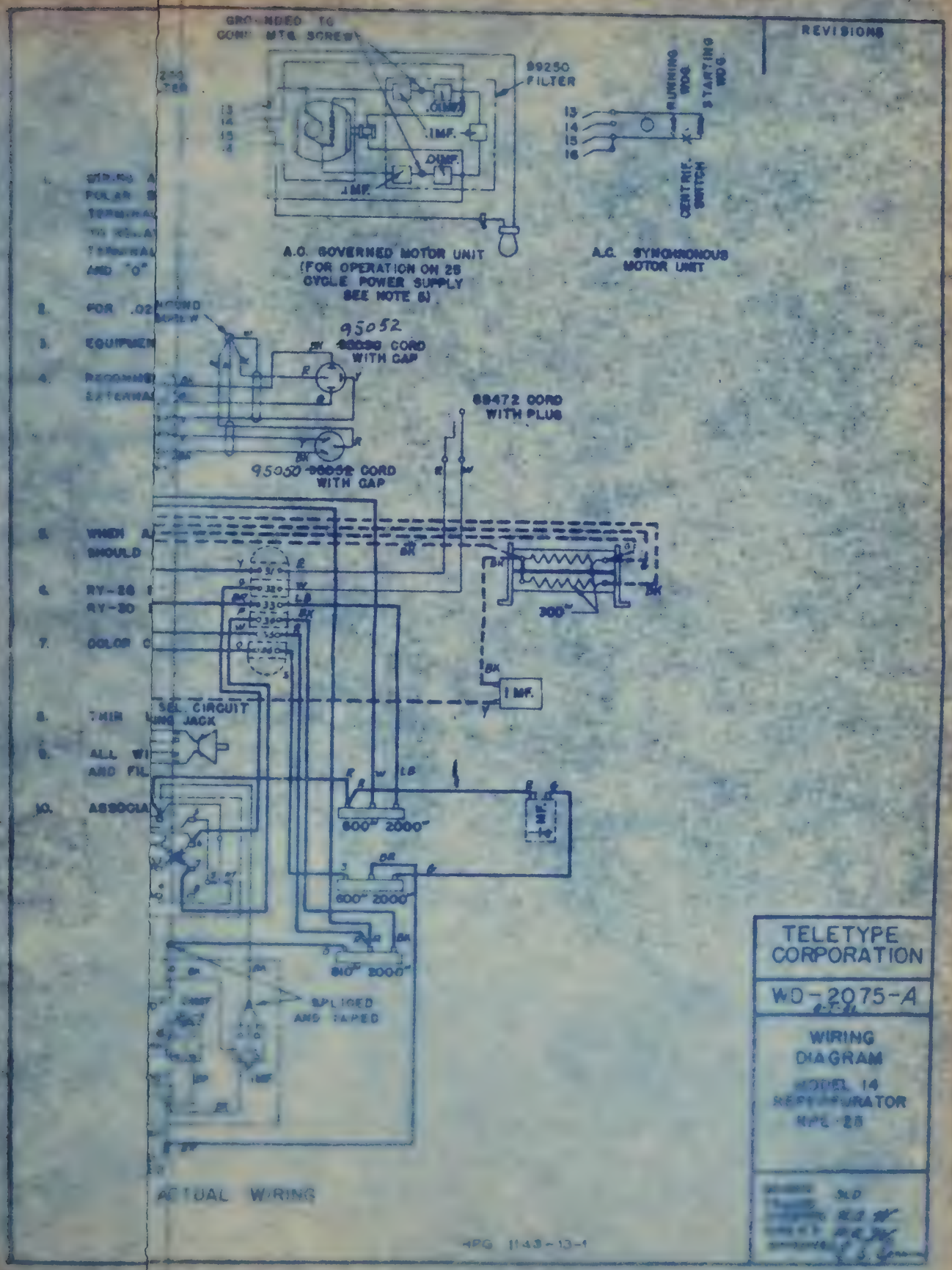
ACTUAL WIRING - 15 PRINTER SET WITH KEYBOARD


SELECTOR MAGNE
105
105
MARKING
SPARK KILLER
400
62
46
11
43
55
4

D. C. POWER SUPPLY XRT 97



D. C. POWER SUPPLY XRT 106


REVISIONS
GROUNDED TO CONT. MTG. SCREW
99250 FILTER
.1MF.
.01MF.
.1MF.
A.C. GOVERNED MOTOR UNIT (FOR OPERATION ON 25 CYCLE POWER SUPPLY SEE NOTE 6)
A.C. SYNCHRONOUS MOTOR UNIT
RUNNING WDG.
STARTING WDG.
CENTRIF. SWITCH
95052 CORD WITH CAP
95050 CORD WITH CAP
99472 CORD WITH PLUG
300W
1 MF.
SEL. CIRCUIT
600W 2000W
SPLICED AND TAPED
ACTUAL WIRING
TELETYPE CORPORATION
WD-2075-A
WIRING DIAGRAM
MODEL 14 REPERFORATOR
RPE-28

1. WIRING AS SHOWN FOR [illegible] OPERATION ON NEUTRAL LINE SIGNALS. FOR OPERATION ON POLAR SIGNALS REMOVE "BK" WIRE FROM TERMINAL 34 AND TAPE, MOVE "Y" WIRE FROM TERMINAL 31 TO 34, MOVE "BR" WIRE FROM 33 TO 31, AND MOVE "BK" STRAP FROM RELAY TERM. 3 TO RELAY TERMINAL 2. FOR OPERATION WITHOUT RELAY REMOVE AND TAPE "Y" WIRE FROM TERMINAL 34 AND "S" WIRE FROM TERMINAL 32. MOVE "W" WIRE FROM TERMINAL 35 TO 34, AND "O" WIRE FROM TERMINAL 36 TO 32.

2. FOR .022 AMP SIGNAL LINE OPERATION, CONNECT THIS LEAD TO OTHER TERMINAL OF RESISTOR.

3. EQUIPMENT SHOWN DOTTED IS UNDERNEATH BASE.

4. RECOMMENDED FUSETRON OR FUSESTAT (AND ALTERNATE FUSE) PROTECTION (CONNECTED IN EXTERNAL POWER LINE).

MOTOR	FUSETRON OR FUSTAT	FUSE
110 V. A.C. 60 CYCLE SYN.	3.2 AMP.	6 AMP.
110 V. A.C. 60 CYCLE GOV.	1.60 AMP.	3 AMP.
110 V. D.C. GOV.	.8 AMP.	3 AMP.
110 V. A.C. 25 CYCLE GOV.	1.4 AMP.	3 AMP.

5. WHEN A.C. SERIES MOTOR IS TO BE DRIVEN FROM 25 CYCLE POWER SUPPLY, A 25 OHM RESISTOR SHOULD BE CONNECTED IN THE POWER LEADS.

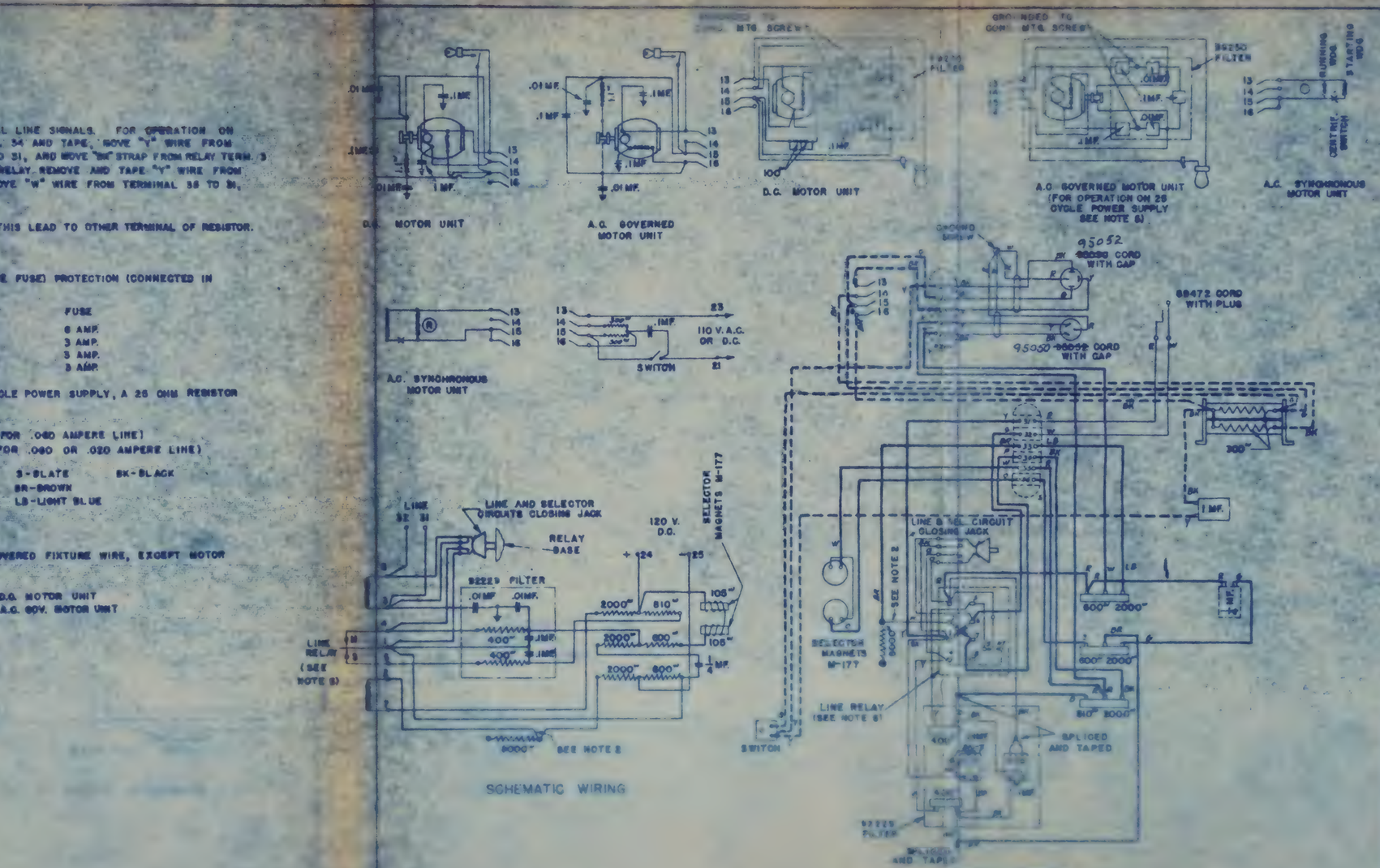
6. RY-26 RELAY (W.E. 255-H) 85 OHMS PER WINDING (FOR .060 AMPERE LINE)
RY-90 RELAY (W.E. 255-A) 136 OHMS PER WINDING (FOR .060 OR .020 AMPERE LINE)

7. COLOR CODE: W - WHITE, R - RED, G - GREEN, Y - YELLOW, O - ORANGE, P - PURPLE, S - SLATE, BR - BROWN, LB - LIGHT BLUE, BK - BLACK

8. THIS LINED INDICATE WIRES NOT IN CABLE.

9. ALL WIRES ARE NO. 18 DELTABESTON COTTON COVERED FIXTURE WIRE, EXCEPT MOTOR AND FILTER LEADS.

10. ASSOCIATED CABLES: 66161 POWER --- 74571 D.C. MOTOR UNIT
66162 LINE ——— 74766 A.C. 60 V. MOTOR UNIT



REVISIONS

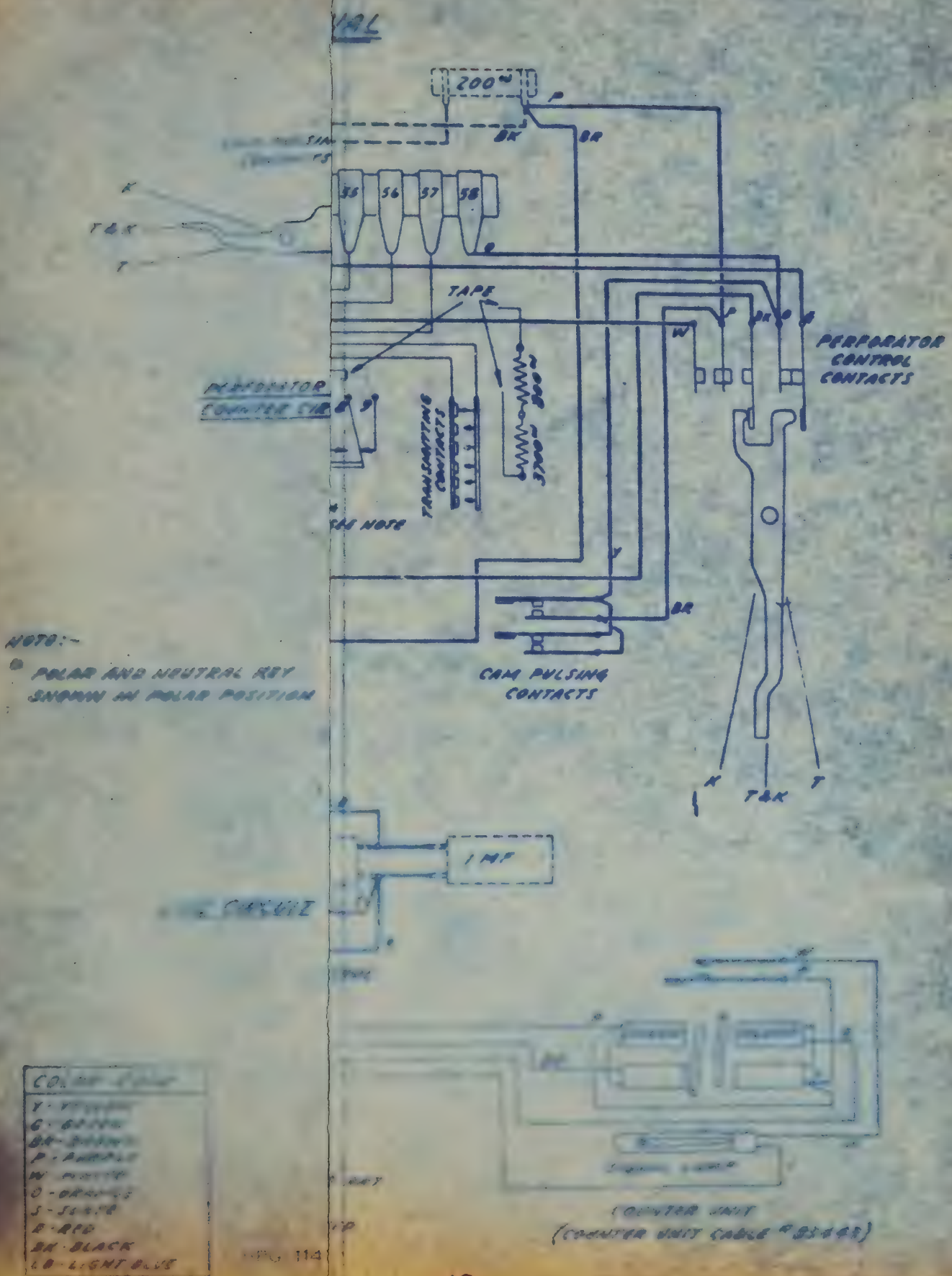
TELETYPE CORPORATION

WO-2075-A

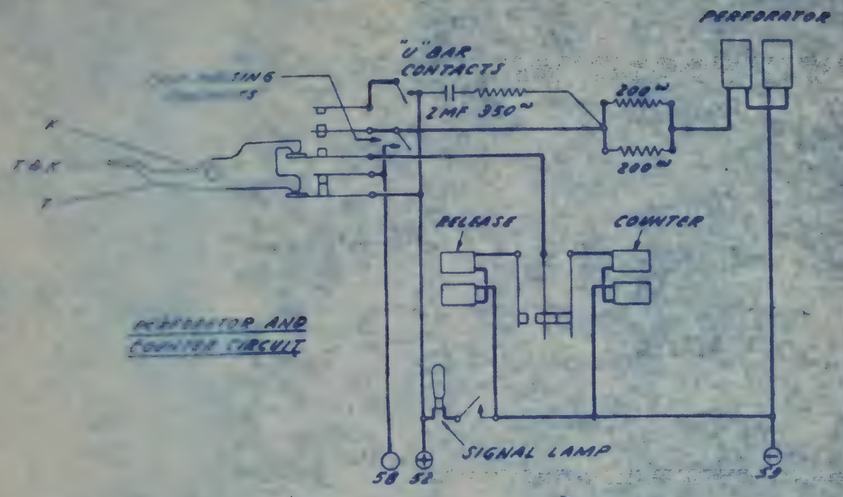
WIRING DIAGRAM

MODEL 14 REPERFORATOR RPE-25

12


200Ω
K
T&K
T
55
56
57
58
TAPE
PERFORATOR COUNTER SW
PERFORATOR CONTROL CONTACTS
TRANSMITTING STARTING CONTACTS
CAM NOSE
CAM PULSING CONTACTS
NOTE:-
POLAR AND NEUTRAL KEY SHOWN IN POLAR POSITION
1 MF
COUNTER UNIT
(COUNTER UNIT CABLE

SCHEMATIC



PERFORATOR AND COUNTER CIRCUIT

TELETYPE CORPORATION
WD 1711
6-17-47

WIRING DIAGRAM FOR PEX 14

DRAWN
TRACED J.A.R.
CHECKED R.A.L.-R.L.
CHK'D P.A.L.
APPROVED P.A.G.

NOTE:-
D POLAR AND NEUTRAL KEY SHOWN IN POLAR POSITION

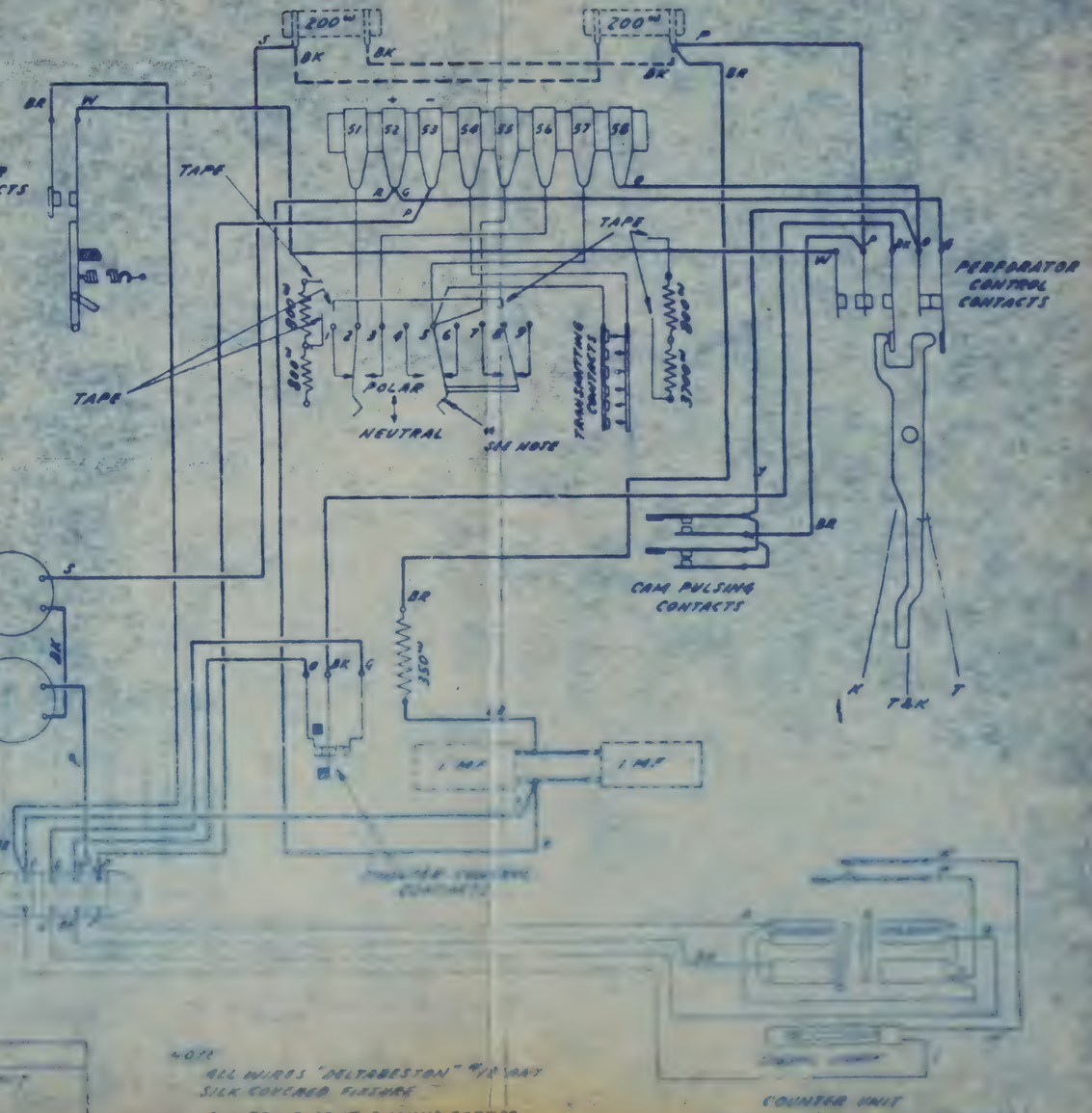
LINE CIRCUIT

COLOR CODE
Y - YELLOW
G - GREEN
BR - BROWN
P - PURPLE
W - WHITE
O - ORANGE
S - SLATE
R - RED
BK - BLACK
LB - LIGHT BLUE

DWG. 1148-19-1

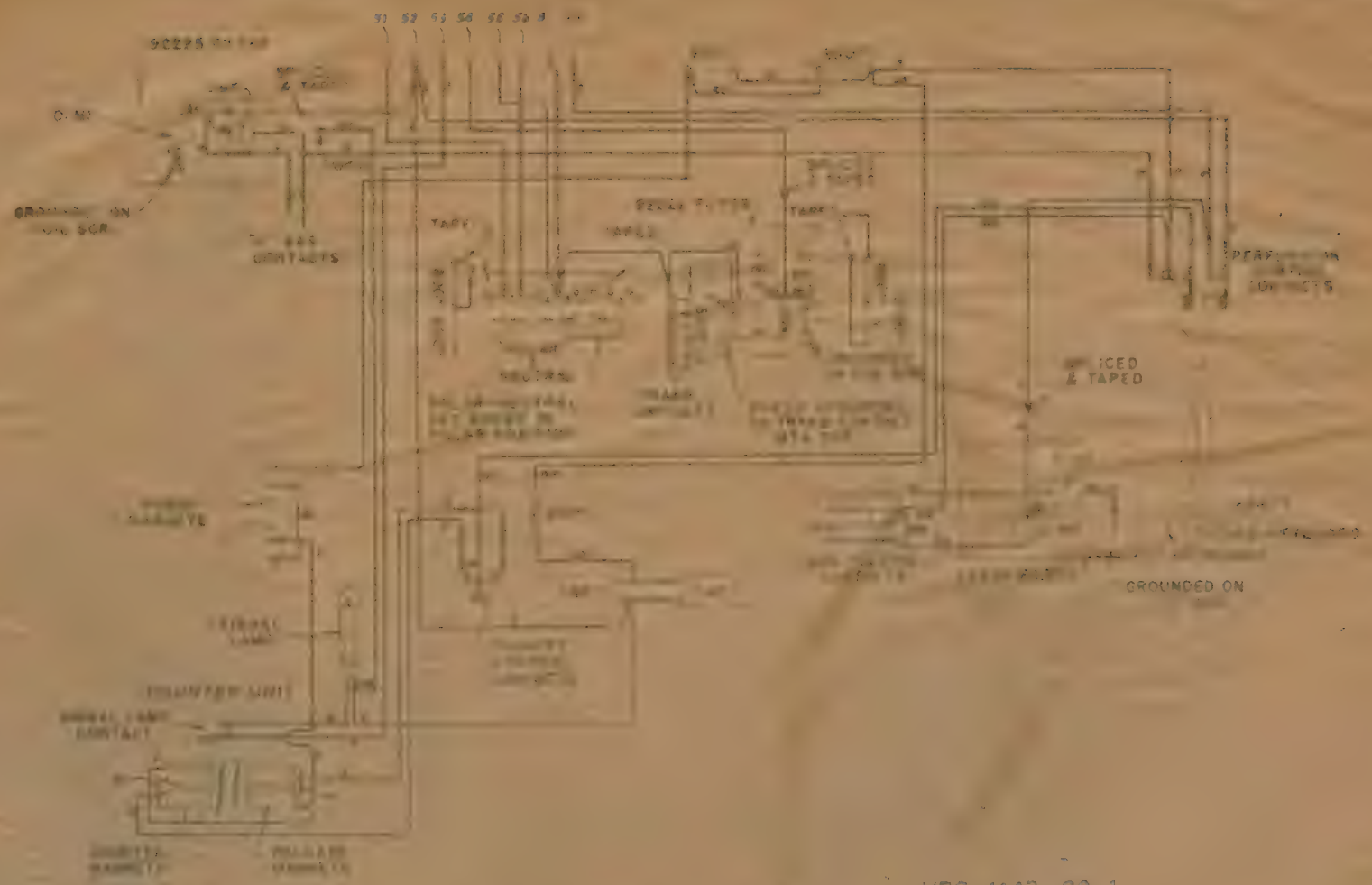
CABLES
[illegible]

ACTUAL



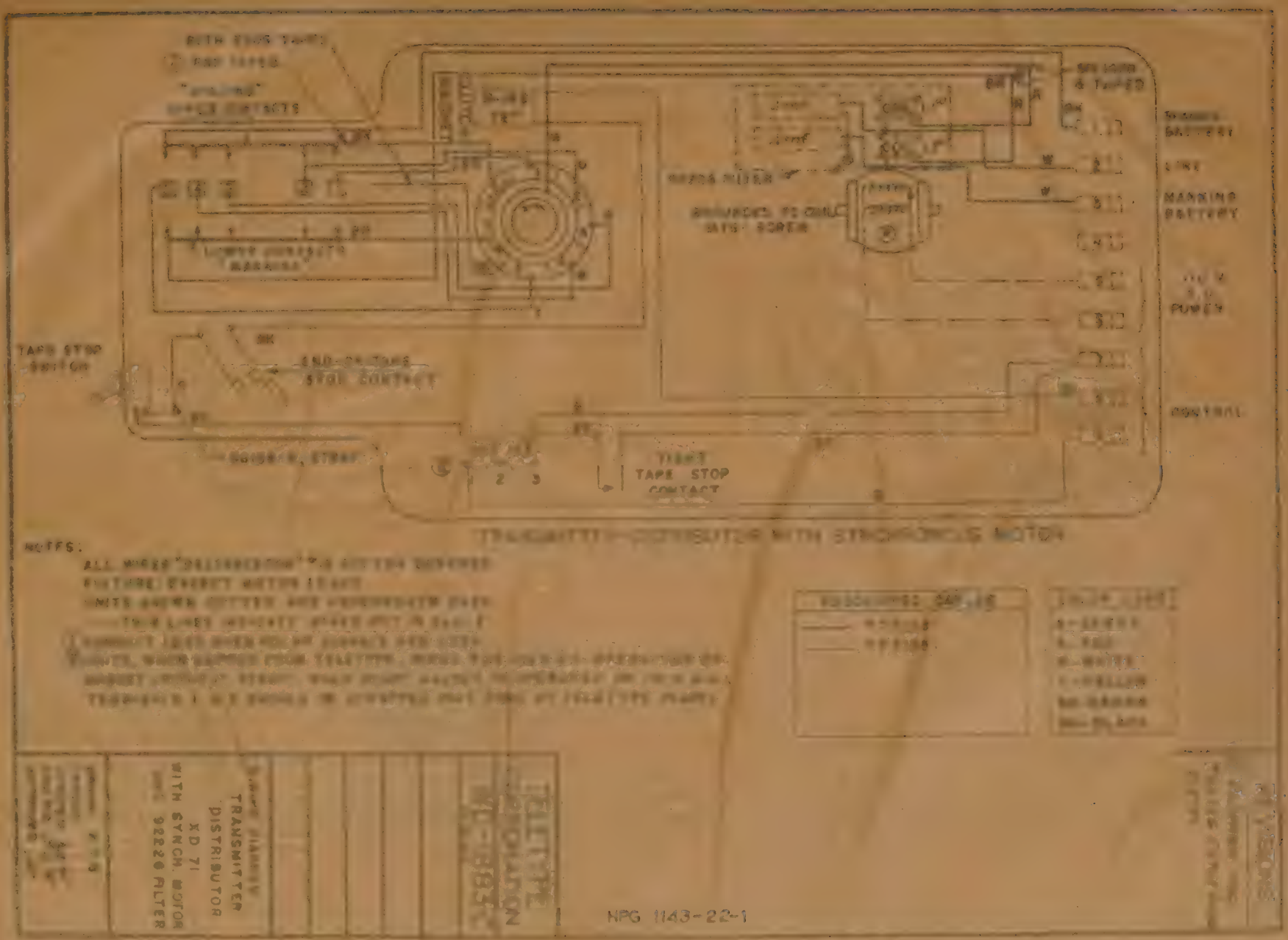
NOTE
ALL WIRES "DELTABESTON" "R" GRAY SILK COVERED FIXTURE WIRE

ALL EQUIPMENT SHOWN BOTTOM IS UNDERNEATH BASE



HPG 1143-20-1

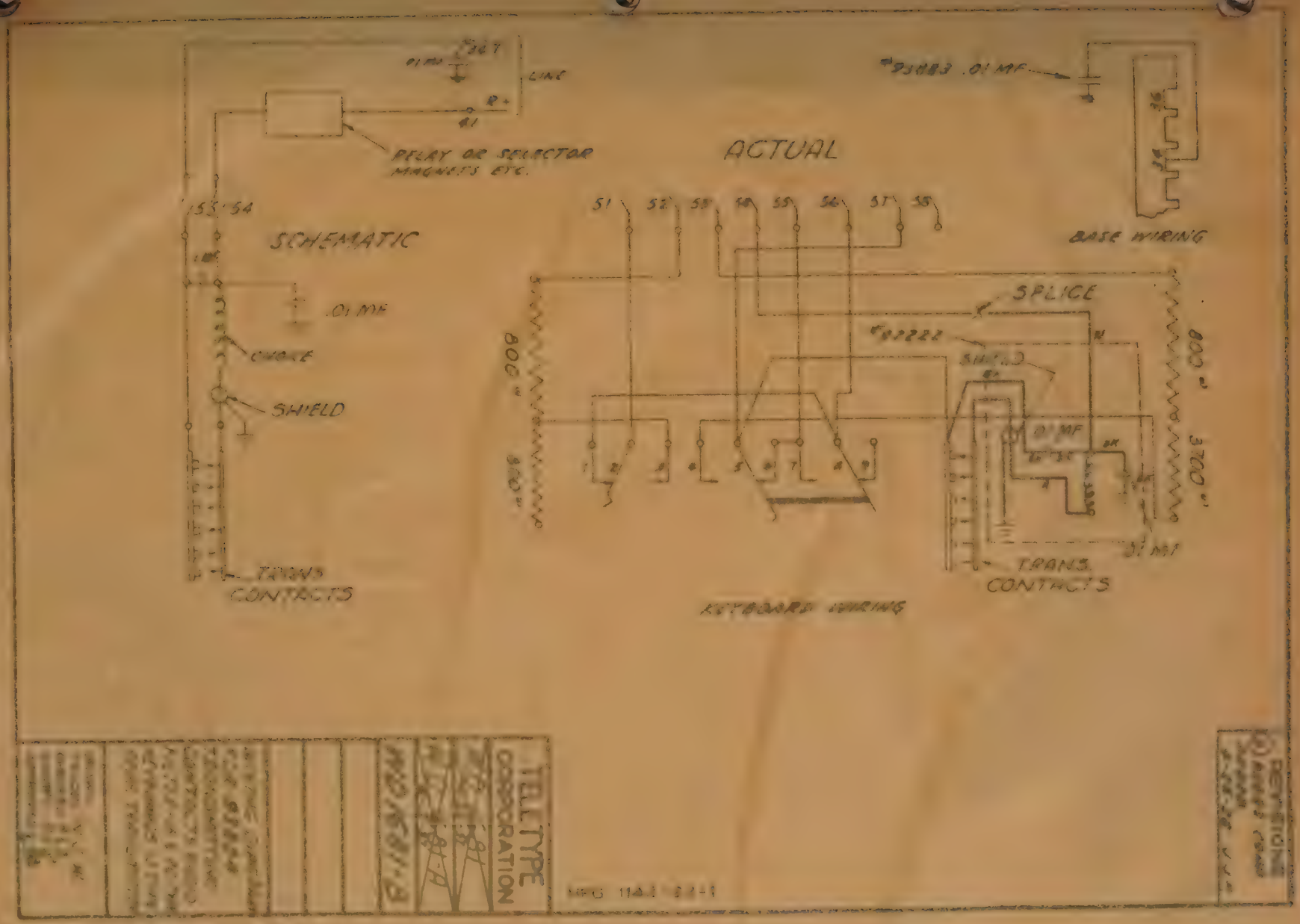
HPG 1143-21-1



TRANSMITTER-DISTRIBUTOR WITH SYNCHRONOUS MOTOR

NOTES:

NPG 1143-22-1


.01 MF
LINE
RELAY OR SELECTOR MAGNETS ETC.
SCHEMATIC
55 54
.01 MF
CHOKE
SHIELD
TRANS CONTACTS
ACTUAL
51 52 53 54 55 56 57 58
800"
SPLICE
SHIELD
.01 MF
TRANS. CONTACTS
KEYBOARD WIRING
.01 MF
BASE WIRING
800"
3700"
.01 MF
TELETYPE CORPORATION

A. C. GOVERNED MOTORS

REVISIONS

A LEAD TO FRONT END OF SPACING BAR REMOVED AND TAPED 9-22-42

B ITEM CODES SHOWN IN TITLE BLOCK 6-11-43

C [illegible] 9-2-43

SYNCHRONOUS MOTOR

TO TERM 5 & 6

BK

G

800Ω

800Ω

UPPER BRUSH

1F COIL

R

W

10

BL

TO TERM 5 & 6

9600Ω R

G

O

1 MF

BL

SPLICED & TAPED

300Ω

300Ω

R

GOVERNOR CONTACT FILTER

CHRF

.1 MF

.01

1MF

BK

R

W

TAPED

W

1F COIL

250Ω

1 MF

SPLICED & TAPED

BK

CED & TAPED

TO TERM 5 & 6

TAPED

FIGURE 2

D.C. GOVERNED MOTOR

ARMATURE LOOP

FIELD LOOP

F

BK

BR

FIELD

A

A-1

A-2

5

R

6

BK

W

BK

TAPE

W

1 MF 250W

500W FOR EACH 110 V. MOTOR

LOCATION OF 88980 CONTACT ASSEM. OPERATED BY ARMATURE EXTENSION ARM

BOTH ENDS TAPED

ENDS TAPED

(I)

"SPACING" UPPER CONTACTS

RELEASE MAGNET

M-198 72W

BK

W

G

BR

R

LOWER CONTACTS "MARKING"

BR

BK

W

Y

BRUSH FILTER

GROUNDED TO COIL MTG. SCREW

1 MF

1 MF

COIL 1W

COIL 1W

BR

R

R

BK

SPLICED & TAPED

1 SPACING BATTERY

2 LINE

3 MARKING BATTERY

4

5

6 SEE FIG. 2

110 V A C POWER

7

8 CONTROL

9

TAPE STOP SWITCH

R

BK

END-OF-TAPE STOP CONTACT

BK

96158-R, STRAP

G

(II) 350 175

1 2 3

TIGHT TAPE STOP CONTACT

BK

G

FIGURE 1

NOTES:

ALL WIRES "DELTABESTON" NO 18 COTTON COVERED FIXTURE, EXCEPT MOTOR LEADS.

UNITS SHOWN DOTTED ARE UNDERNEATH BASE

---THIN LINES INDICATE WIRES NOT IN CABLE

(I) CONNECT LEADS WHEN POLAR SIGNALS ARE USED.

(II) WHEN SHIPPED, THE RELEASE MAGNET IS WIRED FOR 110 V D.C. OPERATION OF MAGNET (WITHOUT STRAP). WHEN RELEASE MAGNET IS OPERATED ON 110 V. A.C. 50 OR 60 CYCLES RESISTOR TERMINALS 1 & 2 SHOULD BE STRAPPED. WHEN OPERATED ON [illegible] TERMINALS 2 & 3 SHOULD BE

COLOR CODE	
G	GREEN
R	RED
W	WHITE
Y	YELLOW
BR	BROWN
BK	BLACK
O	ORANGE
BL	BLUE

ASSOCIATED GAB FS
77138
77139

WD-2084-D

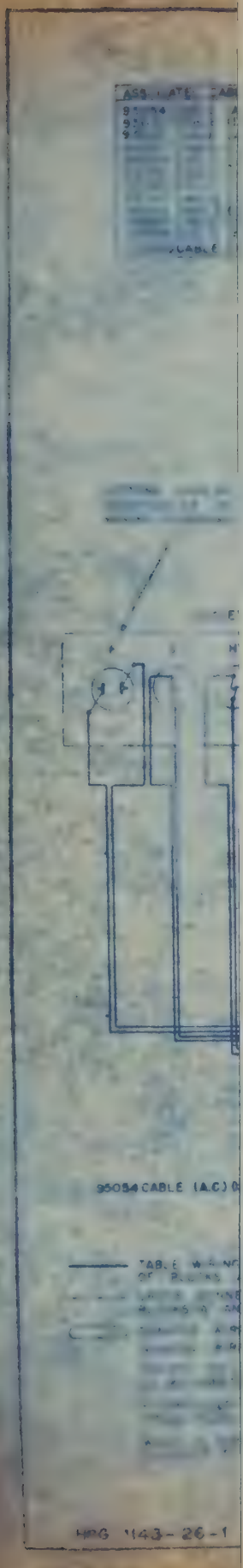
9-22-43

WIRING DIAGRAM

TRANSMITTER DISTRIBUTORS

XD 86 AJ	FORMERLY	XD 71 F5 AJ
XD 86 BK	"	XD 71 F5 BK
XD 86 FR	"	XD 71 F6 AB
XD 86 EQ	"	XD 71 F11 EQ
XD 86 AA	"	XD 71 F5 AA

HPG 1143-24-1



REVISIONS

FRONT OF TABLE

95060 CABLE (B.C.)

TRANS. DIST SLIP CONN.

THESE 2 WIRES #14 DELTABESTON 7 OTHERS #18 C C DELTABESTON.

95080 CABLE (A.C.) (6-#14 DELTABESTON C.C. WIRES.)

POWER CONNECTION BLOCKS

BRASS STRAP 95068

STRAPS "V" & "W" SHOULD BE LONG ENOUGH TO REACH BETWEEN ANY TWO TERMINALS ON EITHER BLOCK

TABLE GROUND SCREW

105387 CABLE (D.C.) (3-#18 C.C DELTABESTON WIRES)

9506) CABLE (D.C) (15-#18 C.C. DELTABESTON WIRES)

4-#18 C.C. DELTABESTON WIRES

ADJUST SLIDER ON RESISTOR TO 2000±10%

RESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS

ETS ...IER AND RECTIFIER

PRINTER

PRINTER

SEND BK

REC. RED

BK

TEST

RED

2500~

TAPE ENDS

LINE CONNECTION BLOCKS

9-#14 DELTABESTON WIRES

105387 CABLE (D.C) (3-#18 C.C DELTABESTON WIRES)

95062 CABLE (D.C) (4-#18 C.C DELTABESTON WIRES)

THIS END OF WIRE TO BE EQUIPPED WITH 82474 TERMINAL AND TERMINATED UNDER SCREW.

95054 CABLE (A.C.) 8-#14 DELTABESTON WIRES

95055 CABLE (D.C)

95057 CABLE (D.C.) (3-#14 DELTABESTON WIRES)

95056 CABLE (D.C. ... DELTABESTON WIRES)

TABLE WIRING INCLUDING WIRES SOLDERED TO REAR OF BLOCKS "A" AND "B"

CROSS CONNECTIONS BETWEEN SCREW TERMINALS ON BLOCKS "A" AND "B" USE #14 DELTABESTON WIRE, BLACK

...NATES WIRES IN BA

DENOTES WIRES IN CABLE

STRAPS ON LINE CONNECTION BLOCKS ARE BLACK #18 CC DELTABESTON WIRE

RECEPTACLES AND PLUGS ... FROM SLOT AND ...

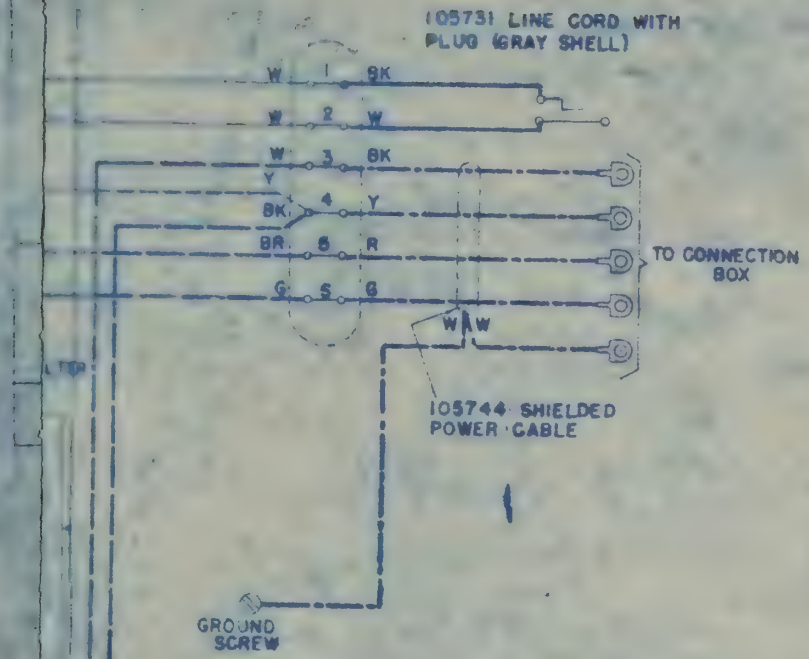
WIRES ON TERMINAL BLOCKS AF AND AG ARE SOLDERED TO LUG ON BACK OF TERMINALS

TELETYPE

HMG 1143-26-1

REVISIONS

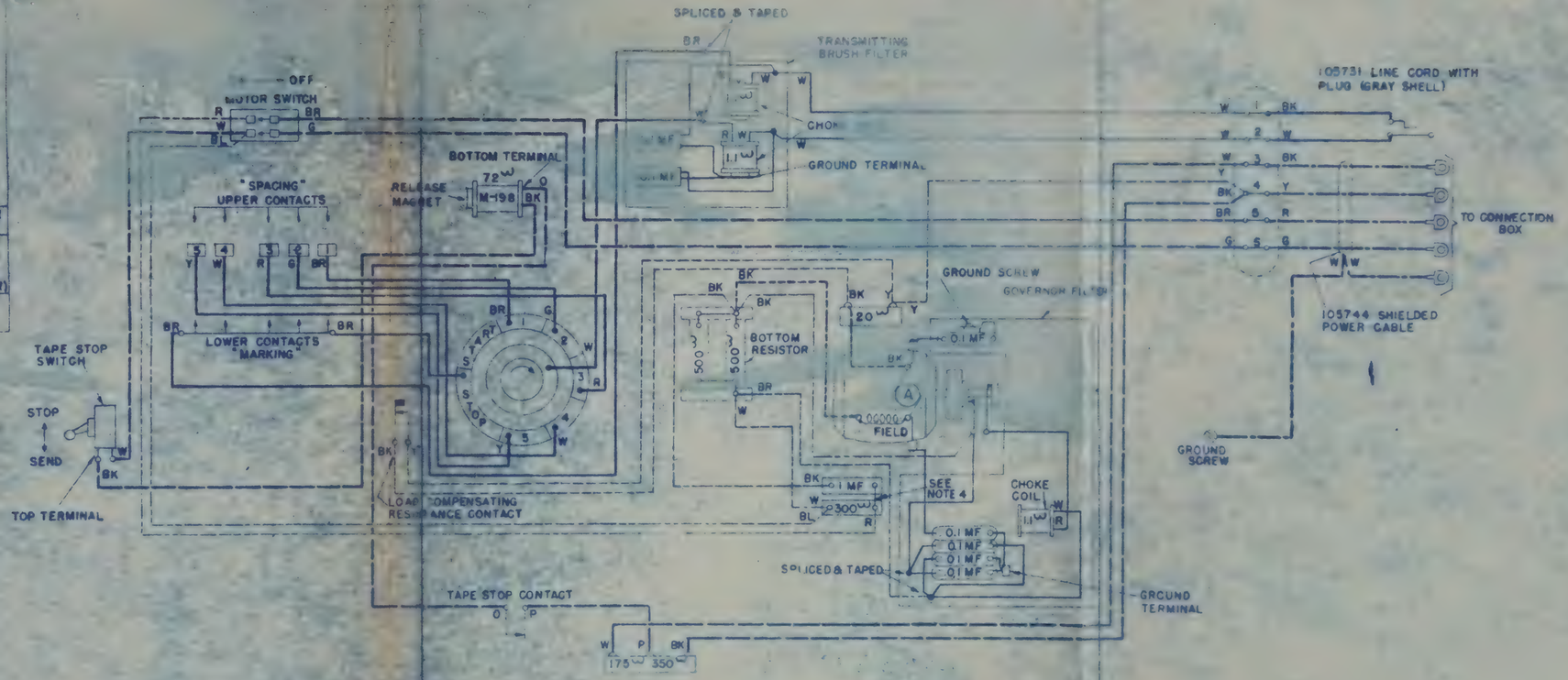
	32343 FILTER REMOVED	7-7-43
		32343
	TELEGRAM	1-8-44
E		38483



WD 2215-E

TELETYPE CORPORATION

NOTE	NOTE
2	ASSOCIATED CABLES: [illegible] CABLE; [illegible] LINE CABLE; 106129 POWER CABLE; [illegible] POWER CABLE; [illegible] LEADS; 105744 SHIELDED POWER CABLE
3	COLOR CODE — SOLID COLORS OR TRACER ON WHITE WIRE: BK BLACK, BL BLUE, BR BROWN, R RED, O ORANGE, P PURPLE, W WHITE, Y YELLOW (BLUE & RED TRACER)
4	STRAP WITH RM 39522; COVER WITH RM 60019 TUBING.



TOP VIEW FROM RIGHT SIDE

WD 225-E

TELETYPE CORPORATION

REVISIONS
(A) REVISED 5-29-43
(B) REVISED 7-27-43

NOTES

BASE WIRING SHOWN WITHOUT CONTROL RELAY. WHEN CONTROL RELAY IS USED REMOVE WIRES CONNECTED TO POWER CONTROL SWITCH, SPLICE & TAPE

REMOVE TAPE FROM WIRES MARKED A & B, CONNECT TO POWER CONTROL SWITCH

CUT LOOP AT CONTROL RELAY AND CONNECT TO CONTROL RELAY TERMINALS

CUT LOOP AT 4 TERMINAL BLOCK AND CONNECT WIRES TO TERMINALS 31 & 32.

CUT LOOP AT CONTROL RELAY CONTACTS. CONNECT "F" TO "D" THEN FOR BREAK OPER. CONNECT "G" TO "E" FOR MAKE OPER. CONNECT "G" TO "C".

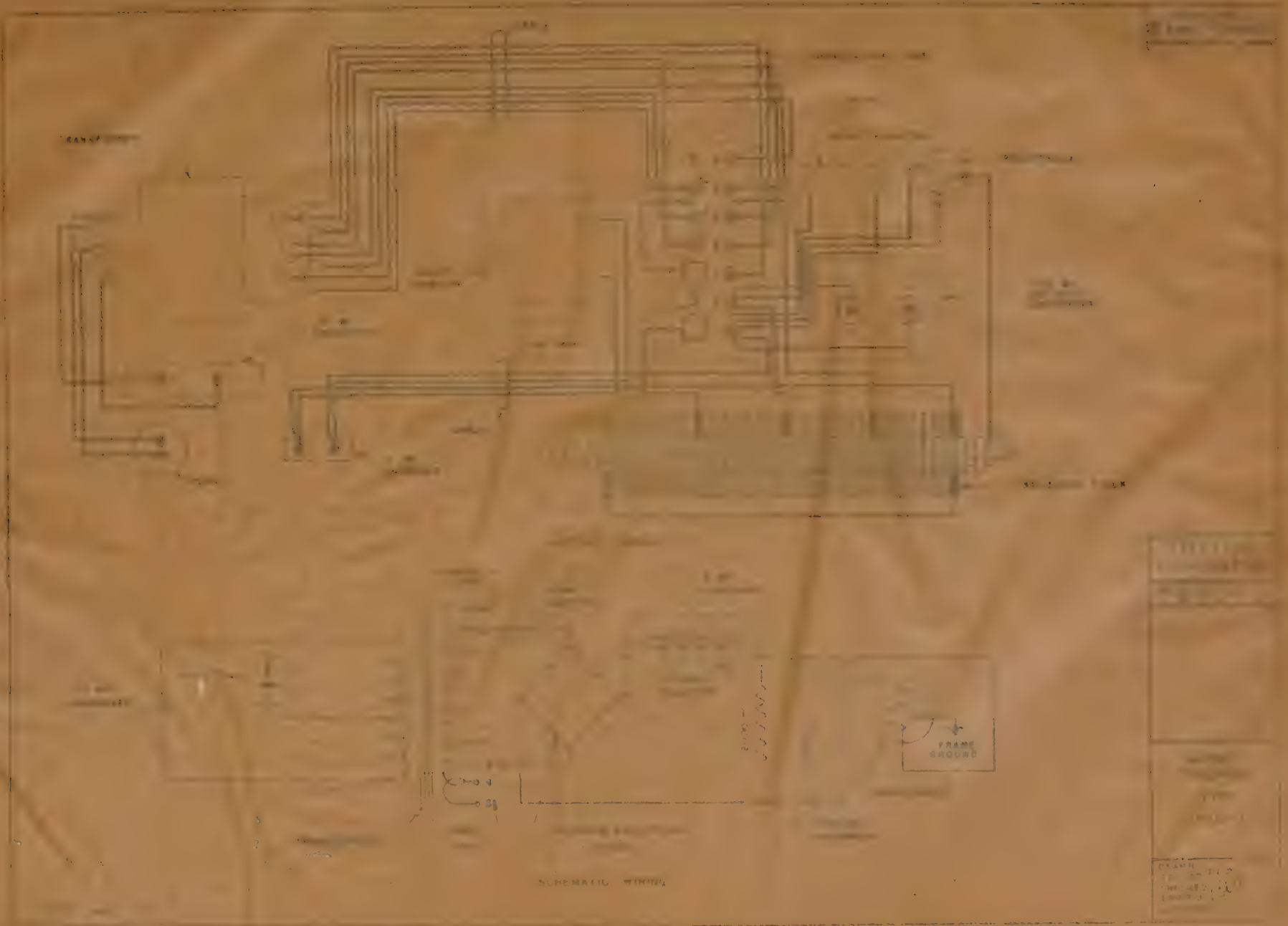
ASSOCIATED CABLES
——— COLOR CODED
– – – ALL BLACK WIRES

ALL WIRES NO. 18 DELTABESTON COTTON COVERED
106884 CABLE

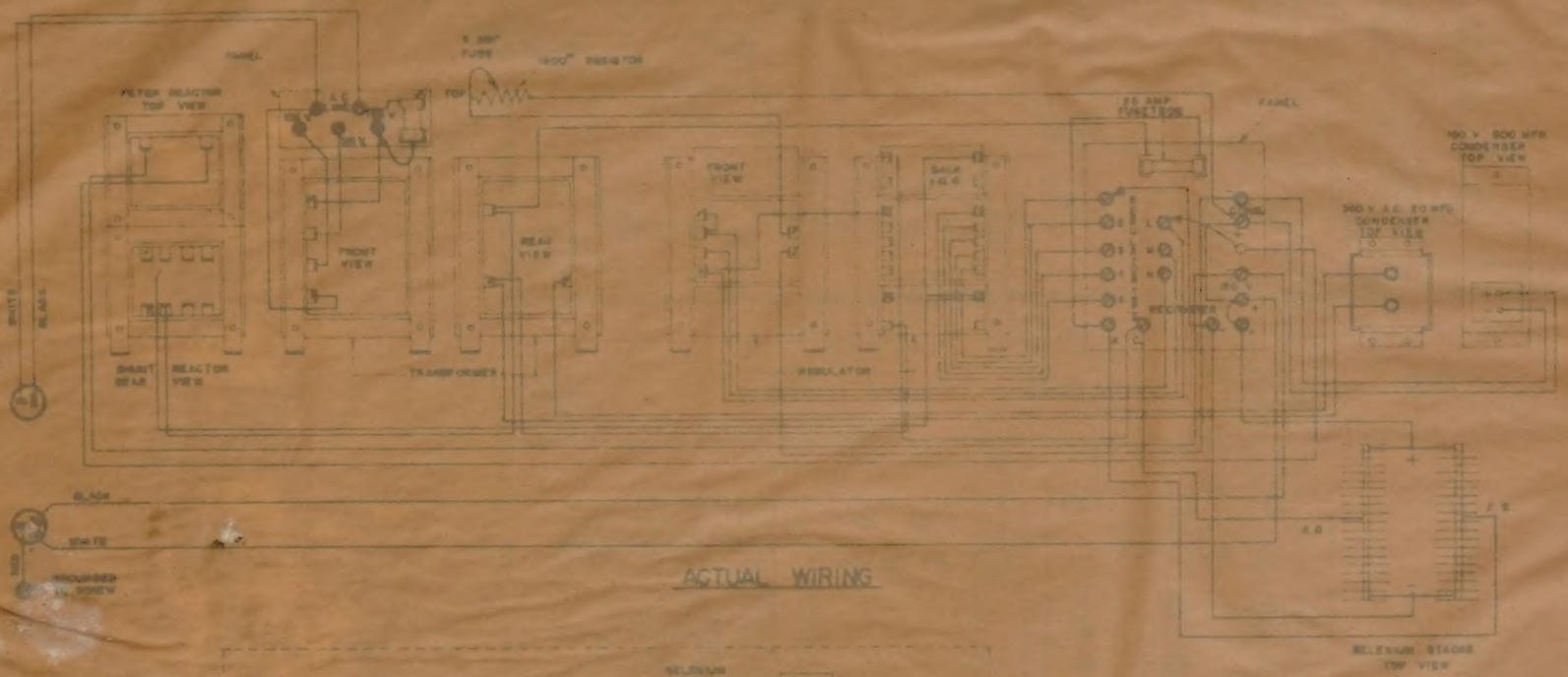
COLOR CODE	
Bk	BLACK
Br	BROWN
R	RED
W	WHITE
G	GREEN
Y	YELLOW

HPG 1143-30-1

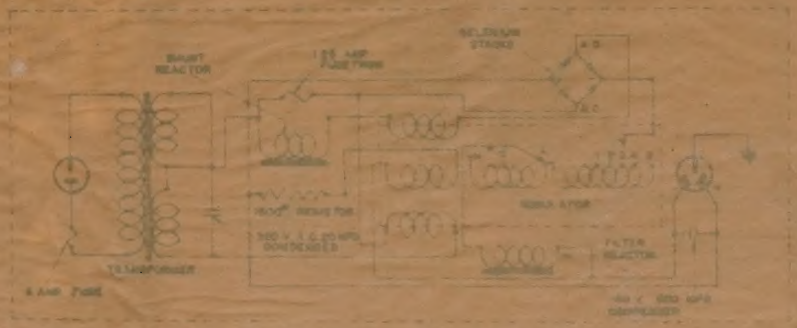
WIRING DIAGRAM
FOR
14 TYPE RECEIVING-ONLY
BASE FB 43


FRAME
GROUND

REVISIONS



ACTUAL WIRING



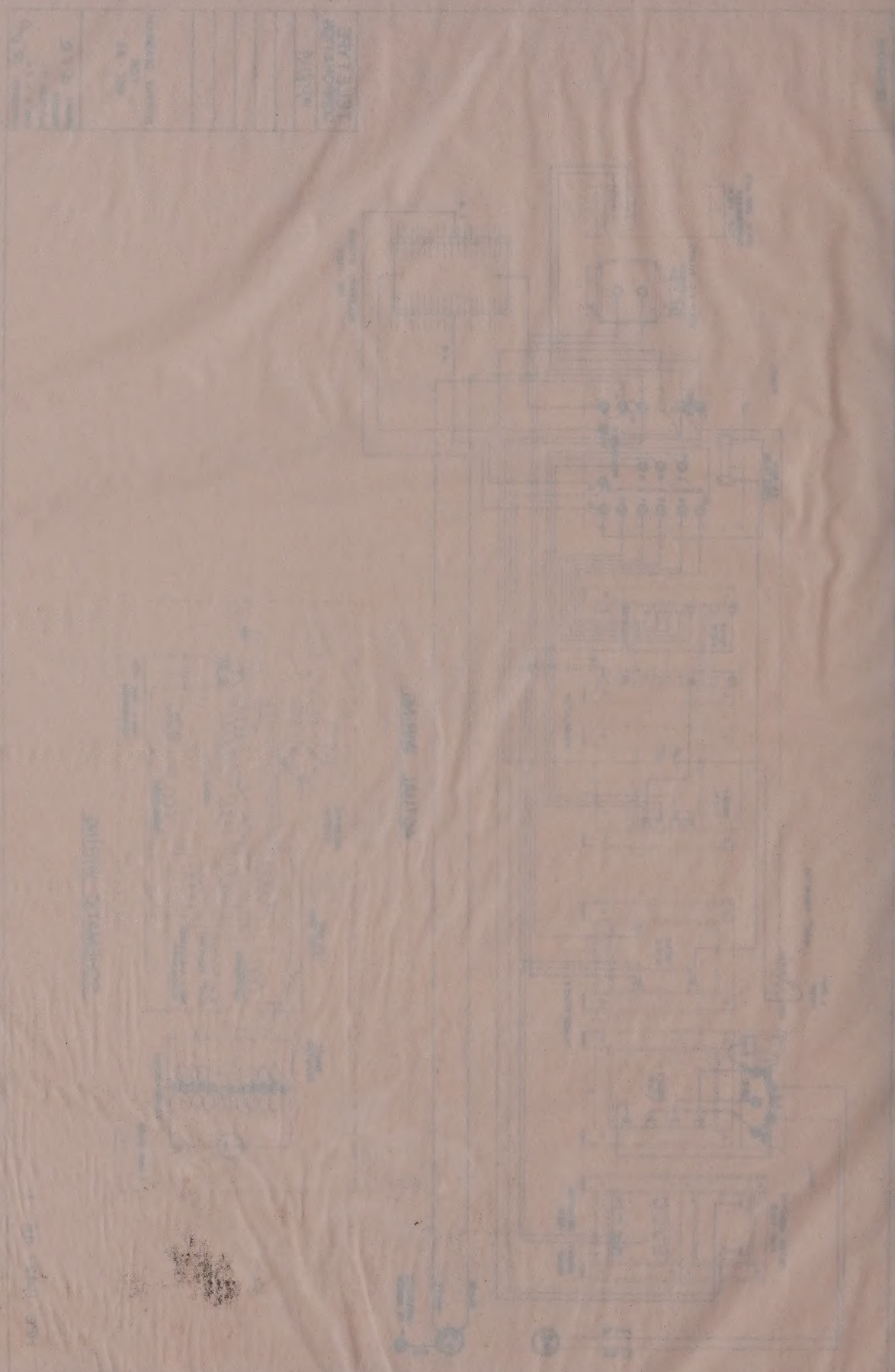
SCHEMATIC WIRING

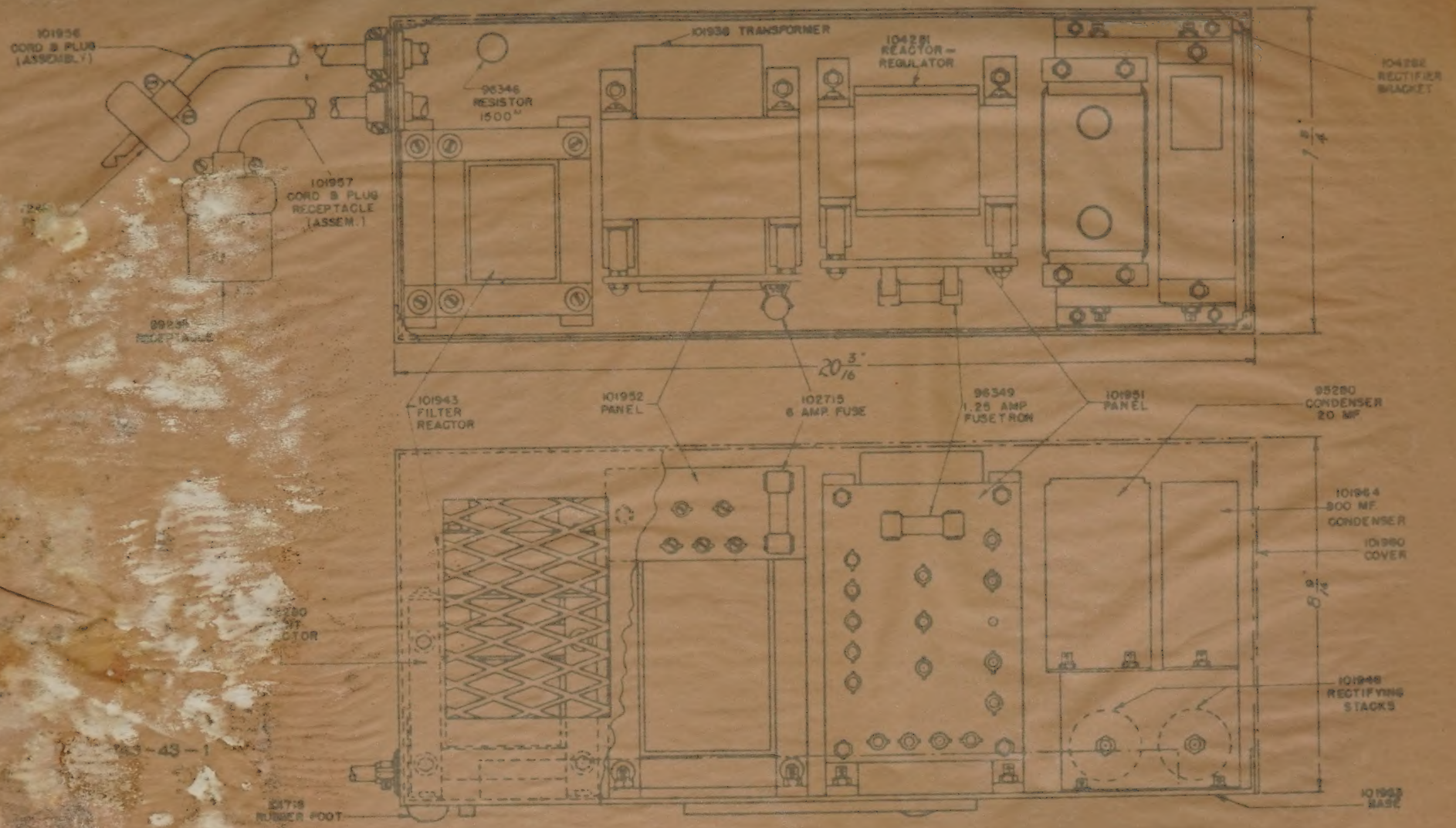
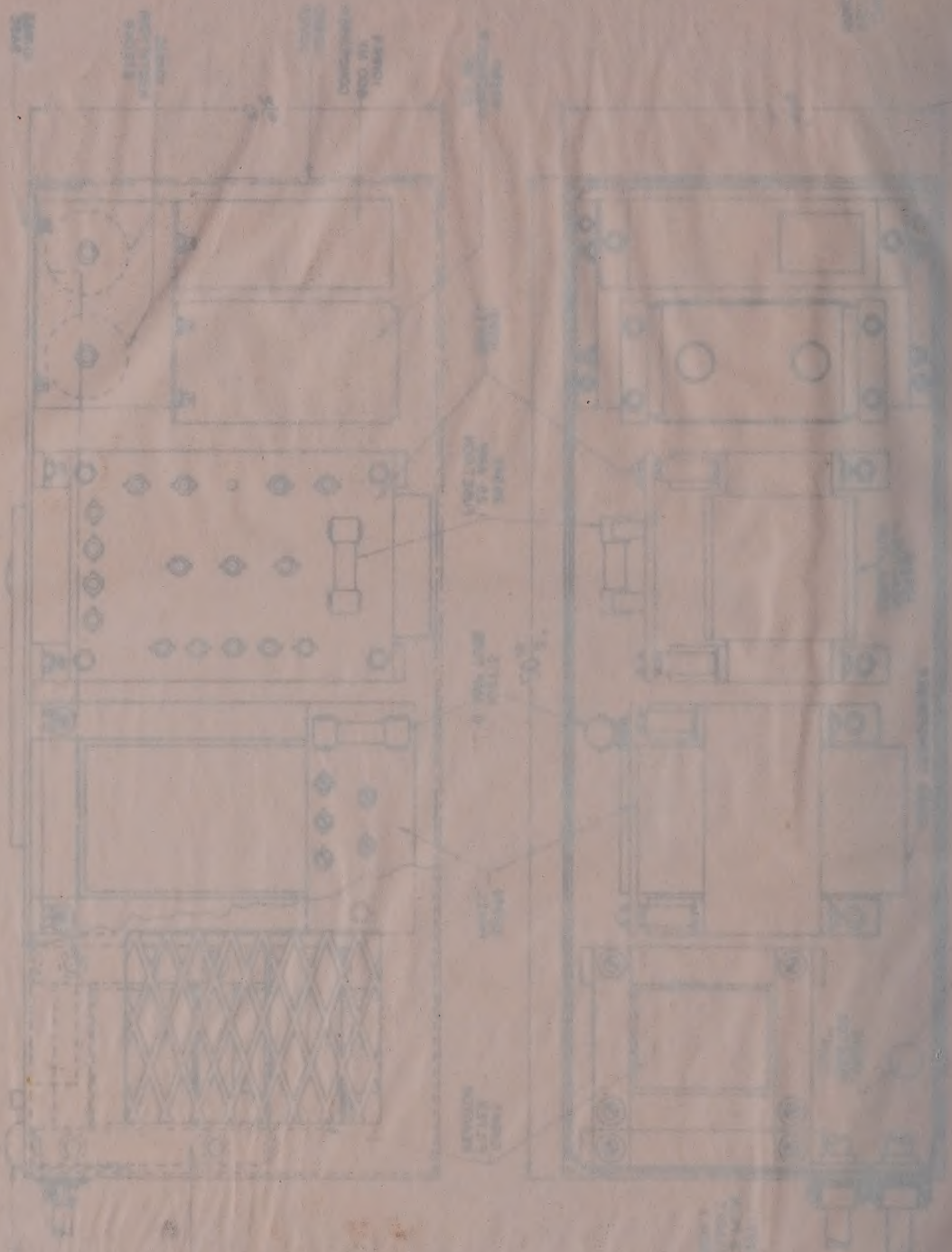
TELETYPE CORPORATION

WD-2118

WIRING DIAGRAM FOR REC-123

HPG 1143-42-1




101936
CORD & PLUG
(ASSEMBLY)
101957
CORD & PLUG
RECEPTACLE
(ASSEM.)
96346
RESISTOR
1500Ω
101938 TRANSFORMER
104281
REACTOR-
REGULATOR
104282
RECTIFIER
BRACKET
7 1/4"
20 3/16"
101943
FILTER
REACTOR
101952
PANEL
102715
6 AMP. FUSE
96349
1.25 AMP
FUSETRON
101951
PANEL
95280
CONDENSER
20 MF
101964
300 MF.
CONDENSER
101960
COVER
8 3/4"
101948
RECTIFYING
STACKS
101962
BASE
93718
RUBBER FOOT